

Tunnel Mite 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. 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 is to be marine or exterior grade. The marine-type is preferable as the inner cores are solid and thus the panel has more structural integrity. Douglas-fir 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.

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, etc.	Sp or Mahog	1	1" x 5-1/2" x 16'
Runner keel	Sp or Mahog	2	5/8" x 1" x 7'
*Runner stem	Sp or Mahog	1	1" x 5-1/2" x 4'

Tunnel cleats	Sp or Mahog	2	1" x 3/4" x 10'
Tunnel battens	Sp or Mahog	2	1" x 1" x 10'
Chine log	Sp or Mahog	2	5/8" x 1-1/4" x 10'
Sheer clamp	Sp or Mahog	2	1" x 1" x 10'
Deck battens	Sp or Mahog	2	1/2" x 3/4" x 10'
Carlings	Sp or Mahog	2	5/8" x 3/4" x 10'
Cowl cleat	Sp or Mahog	2	1/2" x 3/4" x 4'
Strongback	Sp or Mahog	1	1/2" x 3/4" x 4'
Transom braces	Sp or Mahog	1	1" x 2" x 4'
*Transom cleats	Sp or Mahog	1	1" x 1-1/4" x 4'
Spray rails	Mahog	2	1" x 1" x 6'-6"
Coaming cap	Mahog	2	1/2" x 5/8" x 7'
Cleat over battens at transom	Sp or Mahog	1	1/2" x 3/4" x 18"
PLYWOOD:			

Coaming, gussets & floorboards	Ext DF PW AB	1	**1/4" x 4' x 10'
Tunnel and runner planking	DF Mar AA or AB	1	**1/4"(6mm) x 4' x 10'
Tunnel side and side planking	DF Mar AA or AB	1	**1/8"(4mm) x 4' x 10'
Decking and cowl	DF Mar AA	1	**1/8"(4mm) x 4' x 10'
*Dash, bow pcs & motorboard	Ext DF PW AB	1	1/2" x 3' x 4'

*Designates items not required with frame kit.

**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
- 3/4" #8 - 3 gross
- 1" #8 - 2 gross
- 1-1/2" #8 - 1 gross
- 2" #8 - 10 only

- Nails: Ring type boat nails, bronze or Monel
- 3/4" - 2 pounds

Glue: Epoxy - 1 quart