

Dauntless-PW 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 (r-r) 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 (African, Honduras, or Phillipine-dark red varieties) are called out in the listing, lumber typical to the locale and of similar types and weights may be substituted. Long-leaf yellow pine is a good substitute for oak. 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:			
Keel (deadwood)*	Mahog, Oak or DF	1	6" x 6" x 14'
		1	4" x 8" x 15'
		1	6" x 8" x 18'
		1	6" x 8" x 1'-6"
		1	6" x 8" x 6'
Keel filler strake	Mahog, Oak or DF	1	2" x 6" x 28'
Keelson	Mahog, Oak or DF	1	4" x 8" x 28'

		OR 3	1-1/4" x 8" x 28'
Stem & stem knee (**)	Mahog, Oak or DF	1 1	6" x 10" x 8' 6" x 12" x 3'-6"
Transom knee (***)	Mahog, Oak or DF	1	6" x 14" x 3'
Frame members (bottom, side & deck beam members)	Mahog, Oak or DF	2 4 4 2 2	2" x 12" x 18' 2" x 6" x 20' 2" x 6" x 16' 2" x 6" x 18' 2" x 3" x 12'
Floor timbers	Mahog, Oak or DF	1 1	3" x 10" x 16' 3" x 12" x 16'
Chine logs	Mahog, Oak or DF	2	2" x 4" x 36'
Bottom battens	Mahog, Oak or DF	6	2" x 4" x 32'
Spray guard	Mahog, Oak or DF	2	1-1/4" x 3" x 34'
Aft cockpit sole clamp	Mahog, Oak or DF	2	2" x 3" x 36'
Sheer clamp	Mahog, Oak or DF	2	2" x 4" x 38'
Deckhouse carling	Mahog, Oak or DF	2	3" x 6" x 16'
Carling	Mahog, Oak or DF	2	3" x 4" x 13'
Engine stringers	Mahog, Oak or DF	2	4" x 8" x 16'
Transom stringer blocking	Mahog, Oak or DF	2	3" x 3" x 3'
Sheer rub rail	Mahog, Oak or DF	4	2" x 4" x 38'
Bulwark cleats	Mahog, Oak or DF	2	2" x 4" x 18'
Bulwark clamp	Mahog, Oak or DF	2	2" x 2" x 20'
(*) Keel may be built up progressively using laminations of 1" to 2" thick members laid flat of widths to suit in lieu of above. (**) Stem may be built up progressively using laminations of 1" thick members laid to the stem contour of widths to suit in lieu of above. (***) Transom knee may be built up with thinner and smaller solid wood members scabbed on each side with 3/4" plywood laminations in lieu of above.			
PLYWOOD:			
Bottom planking	DF MAR AA or AB (+)	30	1/2" x 4' x 8'
Side planking	DF MAR AA or AB (+)	6 4	3/4" x 4' x 12' 3/4" x 4' x 14'
Optional side planking may be in two laminations of 3/8" plywood laid double diagonally as with the bottom planking so that 8' lengths may be used.		30	3/8" x 4' x 8'

Bulwark	DF MAR AA or AB (+)	1	1/2" x 4' x 10'(++)
Transom	DF MAR or Ext AA or AB	2	3/4" x 4' x 12'(++)
Floor timbers /gussets	DF Ext AA or AB	3	3/4" x 4' x 8'
Chain locker bulkhead	DF Ext AA or AB	1	3/4" x 4' x 8'
Main cabin bulkhead	DF Ext AA or AB	1	3/4" x 4' x 12'(++)

(+) Some builders may wish to use AA or AB Exterior PW for the planking. This is sometimes satisfactory, however, the material must be free of major voids, used where bending is minimal, and where patches or plugged areas will not be exposed to moisture. In any case, the Marine grade is superior.

(++) 8' panels may be utilized with proper overlapping in the laminations or with butt joining methods depending on the member, using extra panels as required.