

Power-Row Skiffs Bill of Materials

MATERIAL LISTING: Included herein elsewhere, the list is an approximation of the lumber and plywood required to build the basic hull of the respective models less optional members. Lumber members can be grouped to purchase "random-random" material which can be re-sawn to the sizes listed as a cost savings. In the listing, 1" material thickness (first number) is nominal, but widths (second number) are net. Thicker stock is nominal in thickness and width. Lengths generally allow for fitting and trimming. If long lengths are not available, use scarf-joined members. See plans and herein for options and alternatives.

PLYWOOD: The list is for planking only, for the respective model lengths. Panel lengths are overall and can be scarfed or butt-joined from 8' panels initially - see instructions for options. In addition to below, each model requires one sheet, 4' x 8' x 3/4" for temporary forms - this can be "CDX" (or "construction grades") unless also used for boat members, in which case at least an "AC" panel should be used (on N.B. models there will be sufficient material for the forms, transom, and breasthook from a single sheet). Also, while considerable scrap may be available from planking cut-offs (depending on model), for such items as buoyancy compartments, etc., an additional 4' x 8' AA or AB panel may be necessary (first determine what you have left over where possible).

LUMBER: Suitable woods include vertical grain Douglas-fir, white oak, teak, white ash, and various mahoganies such as Philippine, Honduras, and African types. Other comparable woods are optional. Where members will be subject to abuse and abrasion, such as the rub rails, a dense hardwood such as oak, ash, teak, or perhaps Douglas-fir is preferable to some mahoganies. If light weight is important, inner members not exposed to abuse can be Sitka spruce or Douglas-fir. In any case, lumber should be top quality, free from defects, and dried.

MODEL:	11 1/2'	13 1/2'	15 1/2'
LUMBER:			
MEMBER	NO. RQD/SIZE	LENGTH	
Transom framing	2 - 1" x 3"	4'	4'
	3 - 1" x 3"	2'	2'

	1 - 1" x 2"	5'	5'	5'
Stem	1 - 2" x 6"	3'	3'	3'
Breasthook	1 - 1" x 10"	2'	2'	2'
Struts	1 - 1" x 4"	3'	3'	5'
Keel	1 - 1" x 3"	10'	12'	14'
Battens	2 - 1" x 2" 2 - 1" x 2" 2 - 1" x 2"	8' (NB,SB) 7' (SB) -	9' (NB) 8' (SB,WB) 10' (SB,WB)	10' 12' -
Chine logs	2 - 1" x 1-1/2" 2 - 1" x 1-3/4"	11' -	- 13'	- 15'
Sheer clamps	2 - 1"x1-1/2"	13'	15'	17'
Rub rails	2 - 1"x1-1/2"	13'	15'	17'
Risers	2 - 1" x 1-1/4"	10'	12'	14'
Thwarts	1 - 1" x 9"	11'	13'	16'
Knees	1 - 1" x 6"	3'	3'	5'
Cleats/doublers	1 - 1" x 1-1/4"	28'	32'	36'
Skeg	1 - 1" x 3"	3'	3 1/2'	4'

PLYWOOD: Listed by model. See instructions for planking options.

MEMBERS	NO. SHEETS	SIZE
11 1/2' Models:		
Side planking	1	1/4" x 4' x 12'
Bottom planking	1	3/8" x 4' x 10'
13 1/2' Models:		
Side planking	1	1/4" x 4' x 14'
Bottom planking/transom	1	3/8" x 4' x 12'
15 1/2' Models:		
Side planking & other items	1	1/4" x 4' x 16'
Bottom planking/transom	1	3/8" x 4' x 14'
(*) See layouts. Full length panels can be made from shorter butt- or scarf-joined panels to the noted length overall.		

FASTENINGS: Totals are approximate based on Fastening Schedule.

Screws: Flathead wood type, bronze or hot dipped galvanized

- 1" #8 = 100
- 1 1/2" #8 = 100
- 2" #10 = 100

Nails: Ring type boat nails, bronze or Monel

- 1" #12 = 2 lbs.
- 1-1/4" #12 = 1 lb.
- 1-1/2" #12 = 1/2 lb.

Adhesives: Epoxy adhesives are advised throughout the construction. These may

be an epoxy adhesive or epoxy resin. Epoxy resins should be used with thickeners (silica or equal) per the instructions with the resin and/or thickening agent. A gallon container of epoxy should be sufficient for all models.