

# Ultra Pierre - Sail Version

## Bill of Materials

**MATERIAL LISTING:** The listing is an approximation that can be used for basic hull cost estimates; it is not meant to be used for buying materials without first checking the instructions and plans for various options which may vary the listing, and to local suppliers for what material sizes may be available. Each builder should make decisions as to how he will build the boat and use materials, and then take off a listing to suit. As a cost savings, materials should be grouped for resawing to the sizes required. Materials are listed for the basic hull members only and do not include options, variations, cabin, or interior members, etc.

**LUMBER:** All lumber should be top quality, free from defects, and of types proven in use in boats. Suitable woods include vertical grain Douglas fir, mahogany (including Philippine, Honduras, and African types), Alaskan cedar, white oak, and comparable boatbuilding woods of good quality. Thicknesses are nominal except as noted "net". Widths are net, but in certain cases previously noted, stock that is initially wider may be required. Total lengths allow some overage for trimming, etc., but the breakdown for number of pieces should be checked to the plans and matched to lengths of stock available.

**PLYWOOD:** All plywood should be at least AB Exterior or Marine grade; Interior plywood is not acceptable. Douglas fir or Mahogany-type panels will suffice. Panel lengths given cover the length of the vessel as designed, although stock panels in these sizes may not always be available. Use shorter panels as available, either butt- or scarf-joined per previous information.

ITEM	SIZE	NO. REQ'D	
<b>LUMBER:</b>			
Transom framing	1" x 4" 1" x 6"	13' 2'	
Framing	1" or 1-1/4" x 4"	15'	

	1-1/4" or 2" x 2-1/2" 1-1/4" or 2" x 3" 1-1/4" or 2" x 4" 1-1/4" or 2" x 6" 1-1/4" or 2" x 10"	4' 17' 115' 3' 17'	
Trunk framing	2" x 10" 2" x 3" 1" x 7"	12' 18' 6'	
Keel	2" x 8"	22'	
Bottom battens	2" x 2" 2" x 2"	2 @ 18' 2 @ 14'	
Chine logs	1-1/4" x 2-1/2"	2 @ 22'	
Side battens	1-1/4" x 2"	2 @ 26'	
Sheer clamps	1-1/4" x 2-1/2"	2 @ 30'	
Chine rails	1" x 2"	2 @ 22'	
Rub rails	1" x 2"	2 @ 30'	
Carlings	1-1/4" x 2"	2 @ 19'	
Deck framing	1" x 2" 1" x 2-1/2" 1" x 3"	16' 12' 12'	
<b>PLYWOOD:</b>			
<b>ITEM</b>	<b>SIZE</b>	<b>NO. PCS.</b>	

Transom, transom knee, stem	3/4" x 4' x 8'	2	
Gussets, bulkheads, trunk sides	1/2" x 4' x 8'	6	
Bottom planking (*)	1/2" x 5'4" x 20'	2	
Side planking (*)	3/8" x 4' x 28'	2	
Decking	3/8" x 4' x 8'	6 (check instruction options)	

(\*) Standard length 4' x 8' panels can be substituted for longer panels. See Instructions.

**FASTENINGS:** The following list is an approximate estimate of the screws and nails required to build the basic hull based on the Fastening Schedule. Some variations may occur due to the several options and alternatives in the design which in turn may vary the quantities required.

- Screws: Flathead wood type, bronze or hot dipped galvanized
- 1-1/4" #8 - 500
- 1-1/2" #8 - 500
- 2" #10 - 600
- 3" #14 - 200
  
- Nails: Ring type boat nails, bronze or Monel
- 1-1/4" #12 = 2 pounds
- 1-1/2" #12 - 5 pounds
- 2" #10 - 4 pounds

**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. Due to the noted options, the amount required is difficult to estimate. A gallon container of epoxy should be more than enough.