



Specifications:		
LOA:	16'	4,85 m
Max. Beam:	7' 5"	2,25 m
Hull draft:	6"	15 cm
Hull weight:	750 lbs.	340 kg
Recommended HP	70	
Material:	Stitch & Glue	

The boat was tested with a 70 and a 90 HP, some builders installed engines up to 115 HP but we do not recommend more than 70. With a 70 HP, she will go faster than a fiberglass boat of the same size fitted with a 125! This boats transom is designed for a standard 15" shaft. The transom can easily be modified to accept other shaft lengths.

The plans show a standard deck layout with, starting from the bow, a large anchor locker, ample storage space under the foredeck with access from the cockpit side, a large self-bailing cockpit with ample storage for fishing rods under the sides, a center console with more storage under the seat, an aft deck with, in the center, a large circulating baitwell, a fish box and a tackle locker. A seat cushion with snaps is usually fitted on that part of the boat. Battery, pumps, filters and drain valves are located under the outboard well, accessible through a large hatch. Other layouts are possible, it is very easy to customize this boat. The fuel tank can be located under the foredeck, just behind the chain locker or under the center console. The plans show rigging pipes running from the console to the outboard well, under the cockpit floor.

The Phantom differs from conventional flats boats in many ways:

- Lighter yet stronger thanks to the composite materials which translates in a faster boat with better fuel economy: a 70 HP pushes her at 50 mph. Most fiberglass boats require at least 120 HP for that level of performance
- Lighter means easier to pole over the flats
- No noisy strakes or chine step: a quieter boat for a silent approach. Simple and clean design, uncluttered deck yet highly customizable to fit the fisherman's personal requirements.
- Classy looks: she will never go out of fashion. A boat that you will be proud to own and show.

All specifications are approximate and subject to changes in function of the mood of the designer and the skills of the builder . . .



Building method:

She is built from marine or boatbuilding plywood, completely fiberglassed in an epoxy matrix in and outside, for easy maintenance and long life.

Her hull was designed for very easy building: no compound curves, no unnecessary complications.

She can be build the "stitch and glue" way:

the 1/4" (6mm) side panels, cut flat from our expanded plates dimensioned drawings, are bent around the mid frame, fastened to the transom and joined at the bow with stitches or the traditional way, on a jig.

The plans show all dimensions needed for each method: accurate expanded plates dimensions and all bulkheads and transom dimensions with spacing for building on strongbacks if desired.

No lofting, no beveling, no scarfing: the sides and bottom are cut from standard 4x8 plywood (122x244cm), joined with a simple butt block. All seams are taped with fiberglass and epoxy, see our "how to" section for details. These epoxy seams are much stronger than the plywood.

The assembled hull is completely fiberglassed for extra strength and easy maintenance: such a boat requires less maintenance and looks better than a production fiberglass hull.

See the [building method page](#) for more details and pictures.

Required Skills:

As all our stitch and glue boats, the PH16 is easy to build. No woodworking skills or special tools are required. The plans include all dimensions and patterns to cut all the hull parts flat on the shop floor. No scarfing required.

Options:

We one typical flats fishing boat layout and two center consoles but this design is very easy to customize thanks to the flat deck. Some builders have turned her into a nice looking ski boat.



Bill Of Materials:*(Excerpts from our BOM)*

The BOM list materials based on our standard layout and includes a 15% waste factor for resin and fiberglass. For plywood, we use standard sheets 4' x 8' (122 x 244 cm). Please read the building notes and see the plans for detailed specifications. For the Phantom 16 we recommend Meranti or Okoume. [Please see our plywood store.](#)

Plywood 4x8' (122x244cm)		
1/4" (6mm)	7	
3/8" (9mm)	11	
1/2" (12mm)	1	
Fiberglass (totals)		
Biaxial tape	125 yards	115 m
Woven tape	20 yards	18 m
Woven fabric	300 sq.ft	27 m2
Resin		
Epoxy, total	10 gallons	40 liters

Labor:

The basic hull and deck structure can be build in 80 hours. Fairing, painting, rigging will require an additional 120 to 200 hours.

More:

Visit our message board, help pages, tutorial pages and read our FAQ: most questions are answered there.

Plans Packing List:

9 Detailed drawings, large scale with all dimensions required to cut the sides, bottom and the bulkheads from flat plywood sheets: no lofting, no templates required.

Drawing List:

- D203_1 Plan and Profile
- D203_2 Structure, Dimensions and Frames
- D203_3 Expanded and Nesting
- D203_4 Assembly
- B203_5 Lamination
- B203_6 Center Console and Details
- E203_7 Full size patterns for curved parts: bow mold, tips of stringers. (All other parts are straight lines).
- B187 Standard Center Console and Notes
- B221 Typical Small Boat Electrical
- Building notes including a detailed description of the assembly sequence and building tips
- "Building on a jig" file including a detailed description of the assembly sequence and building tips.
- Detailed notes on Fiberglass Splices.
- Bill Of Materials
- Help files reference list and more.

Read more information about our [plans packages here.](#)