



Specifications:		
LOA:	21' 10"	6,66 m
Max. Beam:	8' 6 "	2,59 m
Hull draft:	8"	203 mm
Hull weight:	1,200 lbs.	545 kg
Recommended HP	90	125
Material:	Stitch & Glue	composite



The Phantom 22 is a bay boat based on our Phantoms 16 and 18. They share the same shallow draft and hull shape but the 22' hull offers more freeboard, comfort and capability.

This is a great compromise boat. For inshore fishing, she has shallow draft, moderate freeboard, a clean deck and plenty of room for baitwell, fishbox and storage. In good weather, she can go offshore. For cruising with family and friends, she has plenty of seating and storage plus a large persons and gear capacity. We specify 7 persons or 2,000 lbs persons and gear with max. 125 HP but the legal USCG calculations allow much more.

The layout is classic: center console with swing back seat, cooler under. Rear bench in front of the motorwell bulkhead, forward a casting deck with two side seats. Gunwales (side decks) are 8" wide. The self-bailing cockpit is more than 20" deep and optional handrails will increase that height by another 6 to 8".



Building method:

The PH22 is built in the same simple manner as the other Phantoms on a flat floor made of the plywood that we will use for the deck. The side panels cut flat from the dimensions given on the plans are bent around the mid frame, fastened to the transom and joined at the bow. The bottom panels are then attached to the sides and the assembled hull is completely fiberglassed inside and outside.

See the PH18 [building method page](#) for details and our builders web sites for pictures of that building method.

The material is our standard composite: an epoxy-fiberglass sandwich with a plywood core. You may call the plywood a core or a lost mold: the strength comes from the fiberglass.

This boat can also be built 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.



Required Skills:

The PH22 is easy to build: a plywood shell assembled the stitch and glue way but fiberglassed on each side. 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 lofting, no beveling, no scarfing: the sides and bottom are cut from standard 4x8 plywood (122x244cm), joined with a simple fiberglass seam. 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 PH22 is a large boat compared to our Phantoms 16 and 18. She has the same flat deck that makes the makes the building easier but requires more materials and labor. She is not more difficult to build but we recommend to build a small boat first if only to become familiar with the material and technique.

Options:

The plans include at least two plans for different center consoles and those can be built larger or smaller. The rear

can bench can be eliminated and the casting deck can be made larger or smaller. The side seats of the casting deck shown on the plans are small for maximum floor area but they can easily be made wider.

The fuel capacity is 36 gallons under the floor, with standard tanks but this can be increased to 60+ gallons with a tank under the center console or with custom sized tanks.

Baitwells, cooler and all kind of dry or wet storage can be build: what we show is only a suggested layout. The boat can be kept very simple with access holes cut in the bulkheads or one can use the hatches that we specify with part numbers.

A tee top can be installed bolted on backing plates epoxy glued under the sole.

This boats transom is designed for a standard 25" shaft. The transom can easily be modified to accept other shaft lengths.

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. We specify marine plywood for this boat but An economical compromise is to use marine ply for the outside planking and exterior for frames, stringers and bulkheads.

Plywood 4x8' (122x244cm)		
1/4" (6mm)	10	
3/8" (9mm)	8	
1/2" (12mm)	6	
Fiberglass (totals)		
Biaxial tape	262 yards	236 m
Woven tape	32 yards	29 m
Biaxial fabric	45 yards	40.5 m
Resin		
Epoxy, total	17 gallons	68 liters

Cost:

Please use the BOM above to estimate costs in your area.

Labor:

The basic hull and deck structure can be build in 80 hours. Fairing, painting, rigging will require an additional 150 to 250 hours.

More:

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

Plans Packing List:

12 detailed drawings with all dimensions required to cut the all the panels from bottom to windshield, from flat plywood sheets: no lofting, no templates required.

Nesting drawings for the best plywood layout, all parts nested.

- Drawing list:
- B235_1: Plan and Profile
- D235_2: Nesting on standard plywood sheets
- D235_3: Construction with plan and profiles views and sections
- E235_4: Stations with frames, bulkheads and transom outlines

- D235_5: Frames, bulkhead and sole details
- E235_6: Expanded plates dimensions for all hull parts
- B235_7: Lamination Schedule
- B235_8: Details, gunwale, sole, hardware installation
- B235_9: Center Console details and parts
- E235_10: Full Size Pattern for Bow Mold
- B221 Small Boat Electrical
- B225 Seat Lockers
- Specific building notes for this boat with Bill Of Materials
- Help files reference list and more!

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