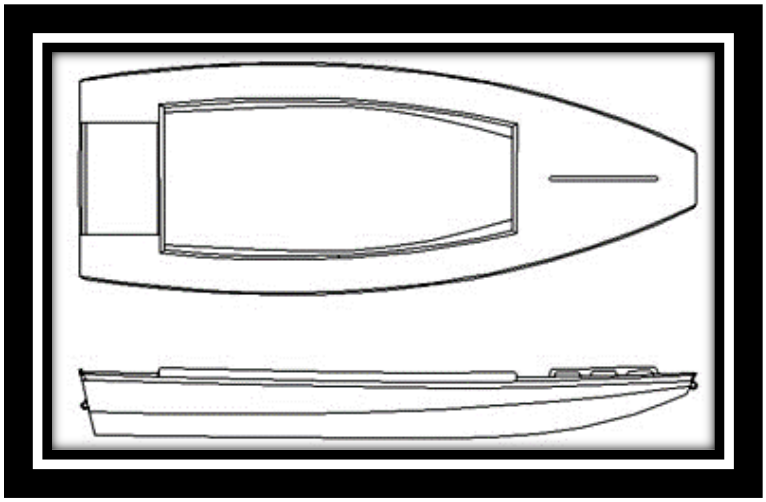

The Duck Skiff 15 is a typical duck hunting boat designed to travel good distances over open water while carrying two or more hunters with substantial amounts of gear.

SPECIFICATIONS

LOA	15'- 6"	4.73 m
Max Beam	5'-8"	1,73 m
Hull weight *	265 lbs.	120 kg
Draft at DWL	6"	152 mm
Max HP	25	40
Building Method	Sharpie (on a jig)	

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

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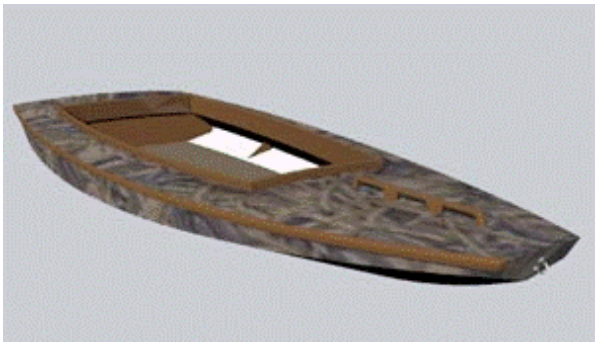
DESCRIPTION

It has some of the attributes of a sneak box: it can take a blind and the hull shape produces minimal slap. Our builders were asking for that type of boat since years. There are many old plans for plywood available and also a good number of commercially produced boats. We took the best features of those boats and combined them in a new boat designed for our material of choice: epoxy-plywood-fiberglass composite. The hull and layout are similar to all other duck boats in that size. The vee hull is deep enough to run smooth in a chop but wide for stability. At the designed displacement of 600 lbs, the chine touches the water. The boat has a PPI of 224 lbs and can take more than 1,000 lbs payload. At 1,445 lbs, the draft is only 9". The transom is designed for a 20" shaft, but other shaft lengths can be used by raising the transom or cutting it lower. The plans do not show a fixed fuel tank but a 12 gallon Tempo will fit under the foredeck.



The cockpit, as designed, is 107 by 48" but it can be made larger or smaller.

Construction differs from other duck boats, even from other stitch and glue boats. Our hulls use a thin core of 1/4" plywood between layers of structural directional fiberglass in epoxy. The main hull stiffener is the sole bonded to the hull with fiberglass tape. The volume under the sole is watertight and provide buoyancy. The whole boat, deck included, is a stiff but still light monocoque structure (one piece) structure.

Since we couldn't decide between a plain transom and sponsons, we designed the two versions and made them available as options.

BUILDING METHOD

The Duck Skiff 15 is built from marine or exterior plywood, with a completely fiberglassed bottom, insides and out. This produces a very stiff and strong composite hull, lighter but stronger than single skin fiberglass. All other parts are epoxy saturated in and outside, for easy maintenance and long life. The assembly method is "stitch and glue": the 1/4" (6mm) plywood core panels, cut from our full-size patterns, are bent around the mid frame, fastened to the transoms and joined with stitches. No scarfing is needed: the sides and bottom are cut from standard 4x8 plywood (122x244cm), joined with a simple fiberglass tape splice. No jig is required but those who prefer can build their boat on strongbacks using the frames as molds. Additional framing is installed after hull completion, the sole, coaming and deck participate to the structure.

All seams are taped with fiberglass and epoxy. No beveling is required. These epoxy seams are much stronger than the plywood itself.

REQUIRED SKILLS

The drawings show all construction details with dimensions for the expanded hull panels, frames, and deck. As all our stitch and glue boats, the Duck Skiff 15 is very easy to build. No woodworking skills or special tools are required. The plans include all dimensions to cut all the hull parts flat on the shop floor. No scarfing required. This boat can be built by a first-time builder.

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OPTIONS

The plans show our suggested layout, but this boat can be customized to fit your requirements. As long as the spacing of the framing is respected, the builder can change the layout and add features. For major changes, please post questions on our technical support message board. We show access under the deck through an opening in the frames. The Duck Skiff 15 can be made unsinkable with a 4-gallon kit of our expandable foam.

Another option is to build all frames, decks and sole from foam sandwich. This will make the boat around 30 lbs. lighter but will require the purchase of foam sheets and extra fiberglass.

LABOR

The average amateur should be able to assemble this hull in less than 40 hours, 80 hours of labor being a maximum for a boat show type finish.

BILL OF MATERIALS

Plywood (4x8' – 122x244cm)		
6 mm (1/4")	6	
9 mm (3/8")	3	
Also see our CNC Kit, which is a precut plywood kit that includes all the plywood needed to build the boat as designed.		
Fiberglass Fabric and Tape		
Fiberglass Biaxial Tape 45/45 12 oz., no mat, 6 in.	63 yards	60 m
Fiberglass Tape 6 oz., 4 in.	37 yards	30 m
Glass Cloth, 6oz., 50 in. wide	9 yards	8 m
Resin		
Epoxy	5 gallons	20 liters
Also see our MarinEpoxy or Silvertip Epoxy kits which include all of the epoxy and fiberglass listed.		

This BOM covers all the supplies for this boat as designed. Usage of materials will vary in function of several factors. An experienced builder will use less resin. First time builders always use more resin, take that in account. Our resin usage calculations are based on a 50% glass content. Options, customization, and variations in fabric and foam cutting preferences will also affect the Bill of Materials. Our figures show an estimated average. Small variations in fiberglass specifications are acceptable, consult us for substitutions.

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MORE

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

LICENSE

As with all our plans, you have the right to build one boat from those plans. The designer holds the copyright to the design, and you purchase a license to build one boat. If you plan to build more than one boat, please contact us about licensing fees.

BUILDING STANDARDS

These plans were drafted according to the ABYC rules. The ABYC (American Boat and Yacht Council) defines the boat building standards in collaboration with the USCG. Professional builders may be subject to more requirements. Consult the designer.

The ABYC standards are very close to the ISO norms and CEE requirements but no European certification was applied for since this is not required for amateur boat building in Europe. CEE/ISO certification is available to professional builders for a fee.

PLANS PACKING LIST

Plans are available in metric or US units.

- B274_1 Plan and Profile
- B274_2 Nesting
- B274_3 Construction
- B274_4 Frames
- B274_5 Expanded Plates
- B274_6 Deck
- B274_7 Lamination Schedule
- B274_8 Details
- Specific building notes for this boat
- Help files reference list and more.

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