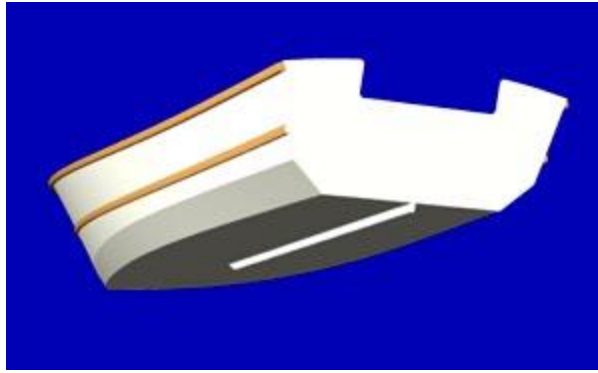


Specifications:		
LOA:	18'	5,50 m
Max. Beam:	7'	2,15 m
Hull draft:	5"	12 cm
Hull weight:	610 lb..	220 kg
Recommended HP	40	(max 70)
Material:	Stitch & Glue	



The OD18 is the big brother of the OD16. The OD16 was first designed as an 18' hull then shrunk in length to 16' at the request of the first builder. The OD18 hull is longer but has the same beam and freeboard. Each boat, OD16 or OD18, has the slanted chine.



The displacement at DWL is 1,630 lb.. The PPI is 322 lb..

A US Coast Guard capacity tag would show max. capacity 6 persons or 850 lb., 1050 lb. persons motor and gear. Max. 30 HP with tiller steering, 70 HP with remote steering. It would be very easy and legal to calculate a tag for 8 persons but the boat would be crowded.

This boats transom is designed for a standard 20" shaft. The transom can easily be modified to accept other shaft lengths.

Building method:

The construction is epoxy-plywood composite, a second generation stitch and glue, designed for efficient and fast building: no jig to set up, no complicated framing. The hull is built upright taking advantage of the flat cockpit sole. The sides are cut from standard 4x8 sheets of 1/4" plywood and the plans give accurate dimensions for all the hull parts and for the center console. All parts are cut flat on the floor: no need for patterns or a jig. The building method is very close to the one used for the OD16, only the chine is different. See the OD16 page for details.

Required Skills:

As all our stitch and glue boats, the OD18 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 build by a first time builder. See our tutorials pages for a complete description of the building method.

Options:

We show two layouts: center console and dual side consoles. The plans include separate instructions and plans for the center console and for the side console. There are several console options, each with plans.

It is easy to add a gunwale (deck) all around the cockpit or even a small cabin forward.



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. Okoume marine can be used and cost usually less than \$50 per sheet (1/4").

Plywood 4x8' (122x244cm)		
1/4" (6mm)	5	
1/2" (12mm)	7	
3/4" (18mm)	1	
Fiberglass (totals)		
Biaxial tape	90 yards	85 m
Biaxial fabric	85 sq.ft	8 m2
Resin		
Epoxy, total	7 gallons	28 liters

Labor:

The hull of the prototype of the OD16 was built by a first time builder in less than 100 hours, most of that time being spent arguing with the designer about building methods . . . An inexperienced builder with only a few hand tools can build this hull in less than 80 hours. The 18' version does not require more labor.

More:

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

Plans Packing List:

- 11 Detailed drawings with all dimensions required to cut the sides, bottom, bulkheads, deck, floors and all parts from flat plywood sheets: no lofting, no templates required.
- Nesting drawings for the best plywood layout with marked parts.
- Construction drawings showing hull, sole and deck structure.
- Alternate layout drawings including three different layouts: 2 center consoles and dual side consoles.
- Drawings list:
- D212_1 Plan and Profile
- D212_2 Construction with details
- D212_3 Frames, deck and other parts with nesting on plywood
- D212_4 Molds, bulkheads, transom
- D212_5 All hull expanded panels with nesting on standard plywood sheets
- B212_6 Lamination schedule, step by step
- B212_7 Console
- B187 Standard Center Console
- B221 Typical Small Boat Electrical Diagram
- B222 Dory Side Console and Notes
- B225 Seat Lockers
- Building notes with pictures of the hull assembly, step by step and BOM.
- Help files reference list and more.