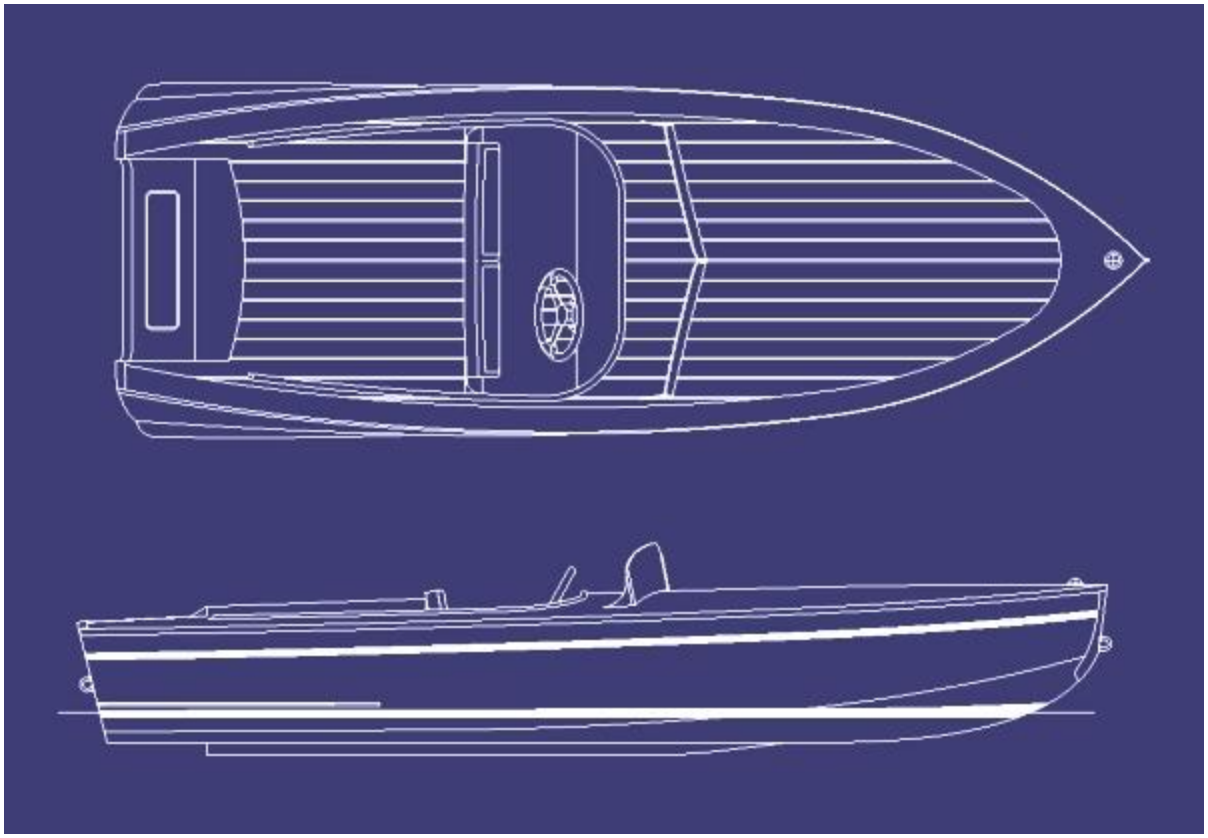
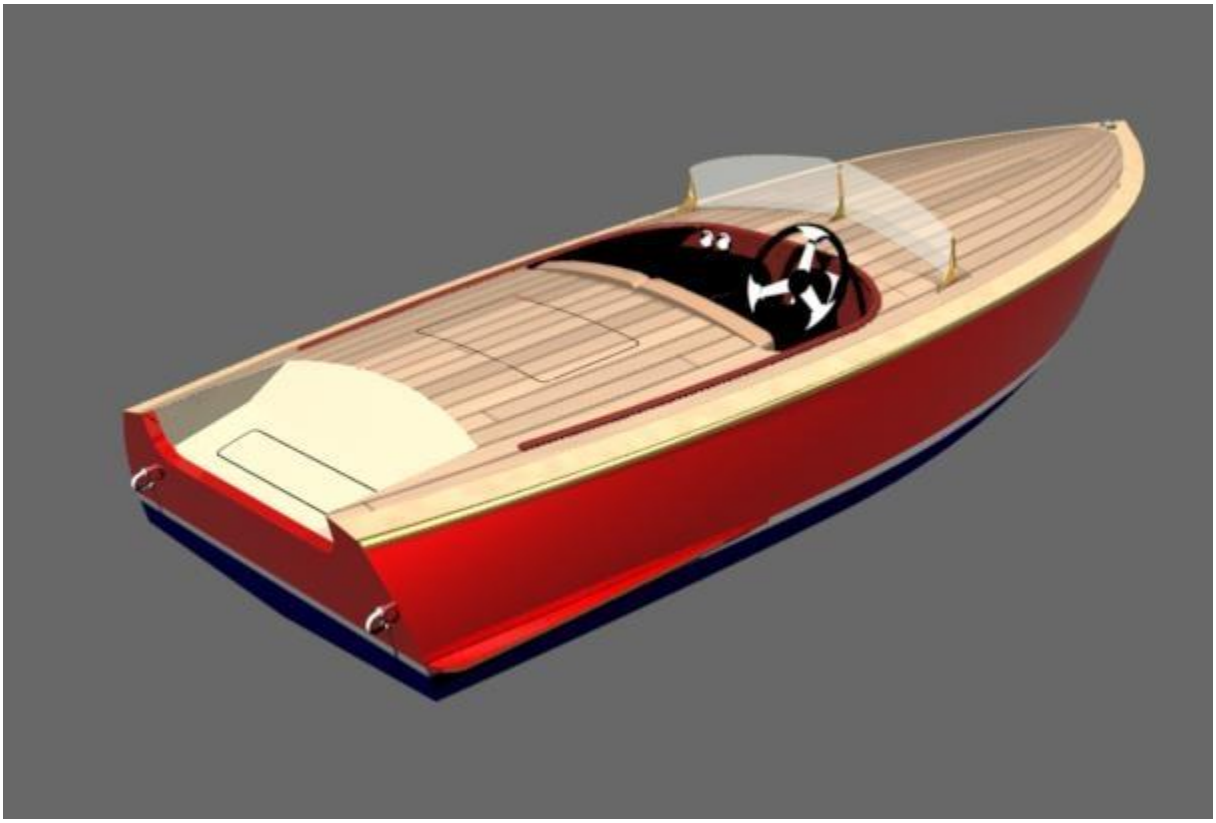


A small 14' classic runabout

Specifications:		
LOA:	14'	4,27 m
Max. Beam:	4' 9"	1,45 m
Hull weight:	160 to 200 lbs	72 to 90 kg
Designed displacement/draft	730 lbs/5"	330 l/12,5 cm
Immersion:	235 lbs/1"	42 l/1cm
Recommended engine	10 to 35 HP	7 to 25 KW
Outboard shaft length	15 or 20"	38 or 50 cm.

* hull weight varies in function ofoptions and materials.

Straight from a DIY magazine from the 50's!
That is where we found plans for a boat named Victory and redesigned her for our material and building method.

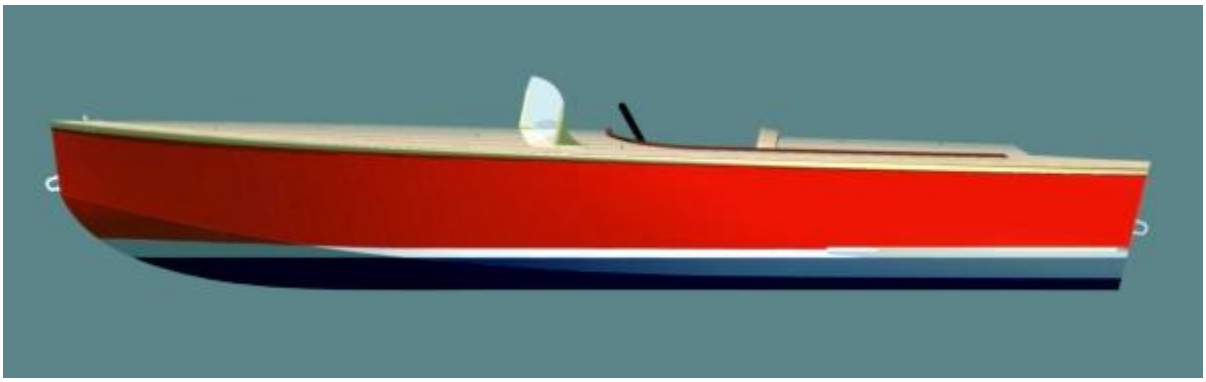


The RB14 is not a racer. She is designed to cruise around at a good speed with minimal HP. Built light and with one person on board, she will plane with a 15 HP but will feel better with a 25.

It's an old fashioned vee hull that ends up with almost no deadrise: fast but not designed for anything other than good weather.
The new hull has less warp than the original, it is closer to a modern planing hull with parallel buttocks. Above the waterline, she is a small classic: strong tumblehome in the sides at the stern, typical chine fender, teak or veneer planked deck.

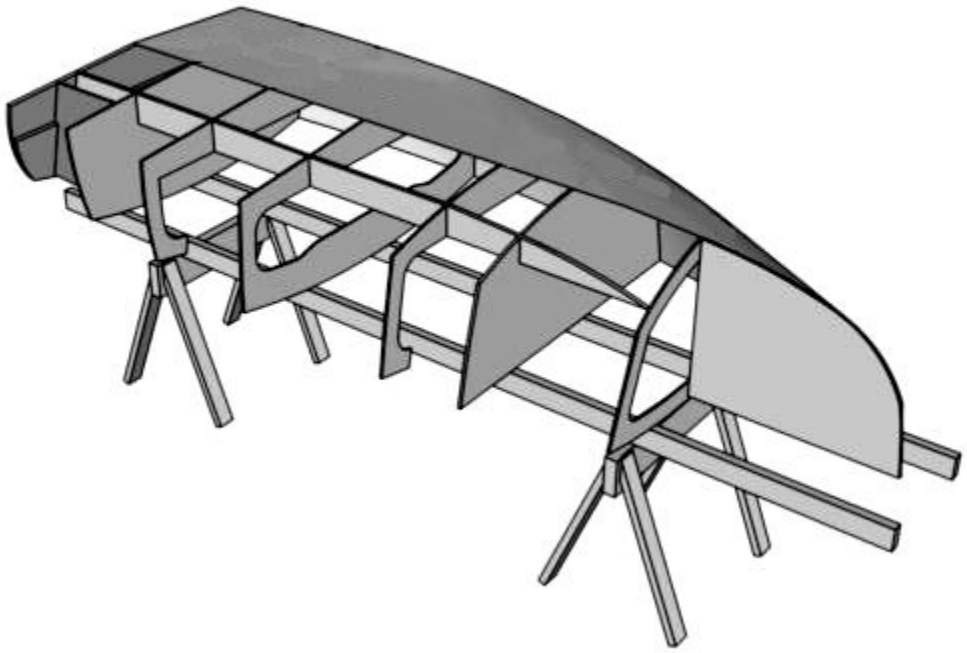
Options:
The standard version has a single cockpit. The plans show a double cockpit but it will be tight for large people. The plans and building notes show how to build the boat with or without the tumblehome if the builder prefers vertical sides.

The boat is too small to be fitted with a self bailing sole but she can be made unsinkable with the addition of buoyancy foam.



Building method:

The RB14 is built upside down on a simple jig. The jig is made from the frames and stringers. The plans show notches in the frames and stringers for easy alignment.



The tumblehome is produced by cutting slits in the plywood sheet. The strong camber in the deck requires kerfs or slits. The plywood deck is covered with a decorative veneer, vacuum bagged or simply glued. Hull weight will vary depending on the features and accessories. This boat can be customized as long as the builder respects frame spacing, stringer spacing and scantlings.

Required Skills:

The RB14 is a boat for those who enjoy building and show off their workmanship but still much easier and faster to build than a traditional wooden boat. We do not recommend it for a first time builder.

BOM:

The plywood layout was calculated to minimize waste: we show the nesting of all parts on the plans. However, this is an intricate boat using a relatively large number of plywood sheets for it's size.
The BOM does not include plywood or resin for the seats but all other parts are included.
The deck is included and requires 2 sheets of 6 mm.

Epoxy resin usage is based on a 45% glass content, first time boat builders will use more.

Marine Plywood 4x8' (122x244cm)		
1/4" (6mm)	4	
3/8" (9mm)	4	
deck	2 sheets 6 or 9mm	or planks
Fiberglass (Totals)		
Biaxial Tape	80 yards	75 m
Biaxial Fabric 50" wide	12 yards	11 m
Resin		
Epoxy, total	6 gallons	25 kg

Not included: fillers, some small cleats (battens), wood strips for the rubrail (from leftover plywood) and paint.

Cost & Labor:
Cost and labor will depend very much on how simple you keep the boat. See our kits or supplies at BoatBuilderCentral.com.
We estimate that you will need around 40 man-hours to assemble the hull and jig and between 100 and 200 hours to finish the boat.

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

Plans Package List:

Detailed drawings with all dimensions required to cut all parts from flat plywood sheets: no lofting, no templates required. The plans include a complete lines drawings for those who choose a different assembly method or want to customize the design.

Drawings list:

- B292_1 Plan and Profile
- B292_2 Construction
- B292_3 Plywood nesting
- B292_4 Stations
- B292_5 Plywood panels
- B292_6 Dual cockpit framing
- B292_7 Details
- Specific building notes for this boat. The building notes include a description of the slits method.
- Bill Of Materials and fiberglass lamination
- Help files reference list and more!