

SPECIFICATIONS



	12'		14'		16'	
LOA	12' – 1"	3.7 m	14'	4.3 m	15' – 5"	4.7 m
Max Beam	30"	.76 m	35"	.9 m	39"	1 m
Hull weight*	40 lbs.	18 kg	55 lbs.	25 kg	60 lbs.	27 kg
Material	Plywood Cored Epoxy Composite					
Building Method	Stitch and Glue					

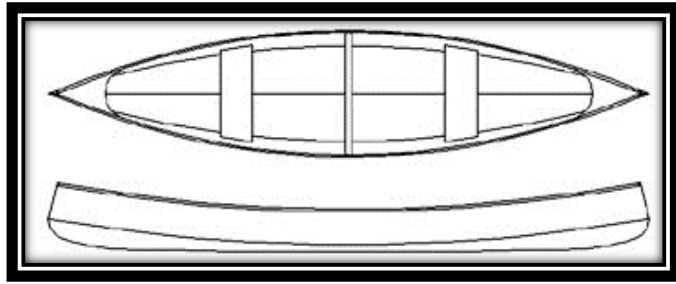
** All specifications are approximate and subject to changes in function of the mood of the designer and the skills of the builder.*

TABLE OF CONTENTS

- Specifications 1
- Description 2
- Building Method 2
- Required Skills 2
- Labor 2
- Bill of Materials 3
- Options 3
- Plans Packing List 3
- More 4
 - License 4
 - Building Standards 4

DESCRIPTION

The Chenoa canoe is a single chine boat using 4 panels for construction. Designed in classic style typical of the Native American canoe: high bow with reverse curvature, pronounced sheer, with a slight tumblehome at the bows. She is the sister boat of our Hiawatha canoe, a double chine or 6 panel boat. Note that



their hull shape is different from the "barge type" production canoes. Our canoes are narrower at the waterline which makes them fast and nimble. However, the chine must be immersed for stability. This means that they are designed to carry a load proportional to their size. Do not build the 16' version if you plan to mostly use the canoe alone. If the boat is not loaded to its waterline, it will not have the expected stability. The 12' version is ideal for one person, maybe one adult and a child: normal load up to 200 lbs. (80kg). The 14' version is ideal for one or two adults: between 180 and 400 lbs. (75 to 180 kg). The 16' is an ideal camping canoe (cargo type) that will be happy loaded with minimum 250 lbs. and up to 500 lbs. (90 to 225 kg). When loaded with only one person, the 16' will work better if some ballast is added.

BUILDING METHOD

The standard version is built in stitch and glue without any molds but 3 small battens are used to shape the sheer and chine. Dimensions for those battens are taken from the molds drawings. The boat can also be built around 3 throw-away molds.

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.

REQUIRED SKILLS

As all our stitch and glue boats, the Chenoa 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.

LABOR

The hull can be built in 20-25 hours, but a finished boat will require 20 hours or more depending on the level of detail and the skills of the builder to fair and paint.

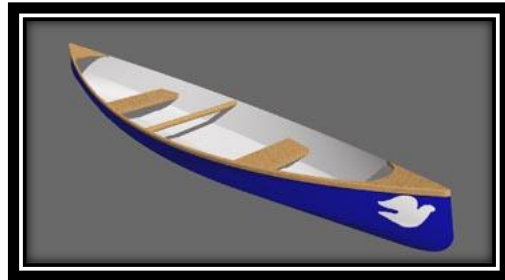
BILL OF MATERIALS

Plywood (4x8' – 122x244cm)	12'	14'	16'
6 mm (1/4")	2	2	2
Also see our CNC Kits, which are precut plywood kits that include all the plywood needed to build the boat as designed.	Chenoa 12	Chenoa 14	Chenoa 16
Fiberglass Fabric and Tape	12'	14'	16'
Fiberglass Biaxial Tape 45/45 6 oz., no mat, 6 in.	50 yds.	50 yds.	50 yds.
Resin	12'	14'	16'
Epoxy	1.5 gallons	1.5 gallons	1.5 gallons
Also see our MarinEpoxy or Silvertip Epoxy kits which include all of the epoxy and fiberglass listed.	Marinepoxy Silvertip	Marinepoxy Silvertip	Marinepoxy Silvertip

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.








OPTIONS

The panels parts are joined with fiberglass splices for fairness. The plans show the usual details and suggest two seats but those are optional.



PLANS PACKING LIST

Plans are available in metric or US units.

-  Plan and Profile
-  Plywood nesting and molds locations
-  Construction drawing with optional seats exploded view
-  Expanded panels and molds dimensions.
-  Full size pattern for the bow.
-  Specific building notes for this boat.
-  Bill of Materials.

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.