

ALERION CLASS SLOOP

SPECIFICATION

General: The ALERION CLASS SLOOP is a reproduction of N. G. Herreshoff's *ALERION* as seen at Mystic Seaport Museum and as described by their plans taken off the vessel there by Edson Schock. Some design changes have been made and the construction technique is the proprietary Composite Keel Construction developed by Sanford Boat Company, Inc. (SBCo). She is a sloop rigged open vessel intended for daysailing and overnight cruising in harbors, rivers, estuaries, bays and sounds.

Dimensions:	length overall	26'-0"
	length water line	21'-9"
	beam	7'-7"
	draft (CB up)	2'-5"
	(CB down)	5'-3"
	displacement	6100 lbs
	sail area	380 sq. ft.

keel: Fiberglass reinforced epoxy casting filled with lead ballast. Rudder tube, bilge sump, and centerboard box opening are integrally cast in. Mast steps directly on keel.

rudder: Sapele plywood and greenheart glued together around a 1 1/4" silicon bronze shaft with torsion pins fastened in. Lower bearing is silicon bronze split casting. Upper bearing is bronze stuffing box.

centerboard: Hollow fiberglass molding with lead ballast as required for sinkage.

centerboard box: Mahogany plank box construction with ash dovetailed pins, bolted to keel with bronze studs. Box has dry rubber gasket and is designed to be removable for cleaning.

centerboard pennant: Centerboard is lifted with two part rope tackle leading to cleat on aft end of box.

stem: Douglas fir laminate, 4" x 6", molded to shape.

horntimber: Douglas fir , 2" x 4", molded to shape.

framing: There is no structural framing nor bilge stringers.

hull planking: Epoxy-glued, vacuum bagged, molded laminated hull consisting of four layers of planking:
 Inner layer 1/4" white cedar laid fore and aft, tapered and spiled, finished natural,
 Two core layers of 1/8" fir laid diagonally,
 Outer layer of 1/4" sapele laid fore and aft, tapered and spiled, finished natural with Cetol.

shear strake: Molded ash shear strake/rubrail.

shear clamps: Two pieces, pieces, fir, 1" x 5" and 1" x 3", glued and screwed to hull planking.

transom: Epoxy glued molded laminated consisting of four layers of planking, same schedule as hull.

deck: 1/2" ocume plywood, reinforced with longitudinal stringers. Outer surface covered with 1/4" teak planking in sprung fashion glued to plywood sub deck. Deck is edged with a teak molding.

toe rail: 1 1/4" x 3/4" molded mahogany.

cockpit sole: 1/2" x 1 1/2" teak grating with integral beams and stiffeners.

cockpit and house coaming: 3/4" mahogany laminate.

house top:	3/8" plywood over 1" x 1/2" ash stringers, covered with teak similar to deck.	
interior joinery:	Bulkheads are 1/2" vee grooved tongue and groove mahogany or sipo boards, varnished. Counter surfaces are melamine covered plywood. Cabin sole is teak boards.	
bunk cushions:	Canvas covered 3" waterproof foam cushions.	
mast:	Box construction, four stave, sitka spruce, hollow, tapered spar complete with hardware and rigging. Maximum section 5" x 3 1/2".	
standing rigging:	Stainless steel 1 x 19 wire with swage and norseman fittings.	
boom:	Solid fir boom, tapered and rounded. Maximum section 3" x 3 1/2".	
jib club:	Solid fir jib club, tapered and rounded. Maximum section 2" x 1 1/2". Forward end of club attaches to car riding on fore and aft track for adjustment of jib camber.	
finish:	topsides:	varnish or paint
	transom:	varnish or paint
	port of hail and name:	decal
	boottop:	paint
	bottom:	antifouling paint
	deck:	natural teak
	toerail, deck edge, shear strake:	varnish
	coaming:	varnish
	cockpit seats:	natural teak
	cockpit sole:	natural teak
	cockpit bulkheads and paneling	varnish
	centerboard box:	varnish
	hull interior,	Cetol
	interior cabinetry:	varnish
	cabin sole:	natural teak
	spars:	varnish
electric:	Electrical system consists of a single gel cell 12- volt battery house top. Power is run through a panel controlling:	

running lights
instruments (if any)
instrument lights (if any)
12 volt outlet
spare

pumps: Manual bilge pump mounted in cockpit draws from sump in cabin and discharges through a thruhull and seacock in lazarette.

equipment: The vessel comes complete with:
15 lb Rocna, or equivalent, anchor
2 x 75' rode
2 x 30' dock lines
2 x 20 " docklines
2 x fenders
plastic bucket with pennant
2 x winch handles

NOT INCLUDED: sails
trailer
electronics
Reinick bronze blocks