

In the tradition begun by the Beetle family in 1921, continued by Concordia Company, and today carried on by Beetle Inc, the Beetle Cat is constructed of the finest available materials by a group of skilled workers.

The keel and stem are constructed from air-dried white oak. The steam-bent frames are also of white oak, but cut from the butt of the tree to insure strength and fair bending. Hull planking is white cedar, properly air-dried. All fasteners are silicon bronze. Special care is given to the jointing and planking. All loose knots are reamed and plugged. Before plugs are driven, they are dipped in glue to insure holding power. Each boat is caulked, faired, and sanded by hand. After each boat comes off the mold, it is given a coat of primer inside and out.

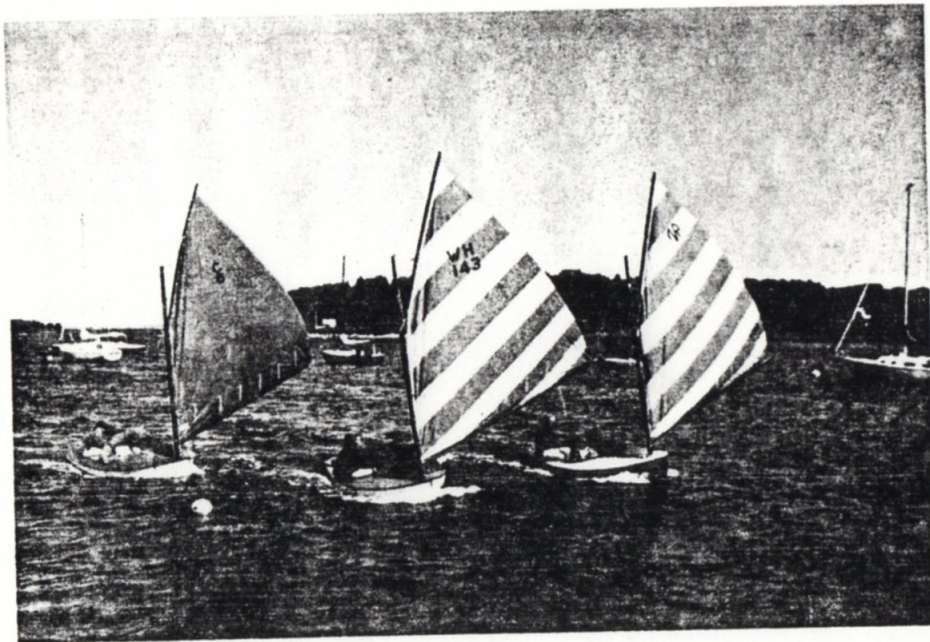
The deck beams are of clear pine, sawn to the proper crown. Decking is of white cedar, same as the hull. The mast step is of oak and is bridged over the stem and keel and then through-bolted through each giving added support to stem and keel. The mast partner is also of oak. Added support is given by using a 2 x 3 strong back which runs fore and aft. It runs along the top of the centerboard box and is fastened to an extra heavy deck beam that helps support the mast partner. The deck beams rest on top of the strong back and are fastened to the sheer clamps. This construction gives a solid deck to walk or jump on. The one-half inch cedar decking is fastened to the deck beams and the top of the sheer plank. It too is plugged, faired, sanded, and then covered with No. 8 canvas duck. The canvas is not set in paint or other bedding as it would be damaged by the shrinking and swelling of the deck planks. Instead, the canvas is given a penetrating primer coat and another top coat of marine enamel.

Coamings are of clear, book-matched oak, steam-bent into place. They are scraped, sanded and varnished. The half-round rub rail is of the same and varnished. Spars are made of air-dried, straight-grain Douglas Fir. Gaff jaws of good dry oak. The mast is tennoned and bears on top of the mast step, preventing the mast from bearing on the stem / keel joint.

The stem is now laminated, producing a much more fair and exact shape (originally it was steam bent). Limber holes of good space have been allowed on all frames. A special mold has been built to insure fair lines and exact dimensions on every boat. Stem to keel fastenings have been bolted and nailed. Centerboard box sides and transoms use a splined glue-joint to ensure tightness. Full length floor boards are now removable for improved maintenance.

Today's Beetle Cat is of the highest quality, continuing the tradition of New England craftsmanship. The New England Beetle Cat Boat Association hopes you enjoy sailing your craft as generations have before you.

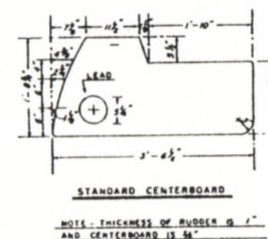
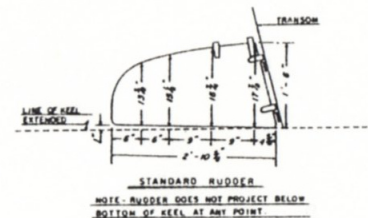
- 3.10.5 During a Round Robin event, each skipper is responsible for an inspection of the boat to which he is assigned. Any defects shall be reported to the Race Committee before racing. Any damage or loss, no matter how small, shall be reported to the Race Committee at the end of the race in which the damage or loss took place. Once a skipper has inspected the boat and started a race, failure to complete the race because of equipment shortage or failure will result in a score of DNF for that race.



Sail Specifications:

| | |
|----------------|-------------------------------|
| Leech | max 17' 4" |
| Leech Roach | max 0' 7.5" |
| Foot | max 13' 0" |
| Foot | min 12' 6" |
| Foot Roach | max 0' 4.5" |
| Hoist | max 7' 9" |
| Hoist Roach | max 0' 2.5" |
| Head | max 8' 7" |
| Head Roach | max 0' 2" |
| Diagonals: | |
| Throat to Clew | max 14' 6" |
| Tack to Peak | max 15' 11" |
| Battens | 3 |
| Batten Length | max 30" |
| Bottom Batten | min 52" from Clew |
| Top Batten | min 45" from Head |
| Reef Points | min 7 (evenly spaced) |
| Reef Cringles: | |
| At Hoist | 2' 3" from Tack ($\pm 1"$) |
| At Leech | 2' 10" from Clew ($\pm 1"$) |
| Sail Slides: | |
| Foot | max 12" Spacing |
| Head | max 10" Spacing |
| Hoop Fasteners | 5 |
| Hoop Fasteners | max 16" Spacing |

Note: Measure point at corners is apex (intersection) of edge lines)



SPECIFICATIONS

Length Overall 12' 4"
 Length Waterline 11' 8"
 Beam 6' 0"
 Draft with Board Down 2' 0"
 Draft with Board Up 0' 8"
 Sail Area - Approx. 100 sq. ft.
 Weight - Approx. 450 lbs.

Frame - Oak
 Planking - 1/2" Cedar
 Spars - Douglas Fir
 Centerboard & Rudder - Marine Ply
 Deck - Canvas on 1/2" Cedar
 Coaming & Rails - Oak
 Fasteners - Bronze
 Hardware - Bronze
 Sail - Dacron or Natural Fiber

| ITEM NO. | NAME OF ITEM | REMARKS |
|----------|-----------------------------|---|
| 1 | STEMHEAD FITTING | |
| 2 | TURNBUCKLE | HEADSTAY |
| 3 | CHAIN PLATES | PORT & STARBOARD, OPTIONAL |
| 4 | TURNBUCKLES | PORT & STARBOARD, OPTIONAL |
| 5 | DECK BLOCKS | PORT & STARBOARD |
| 6 | MOORING CLEAT | |
| 7 | HALLIARD CLEATS | PORT & STARBOARD |
| 8 | BOW CHOCK | |
| 9 | SHEET TRAVELER | |
| 10 | TILLER STRAP | FORWARD |
| 11 | TILLER STRAP | AFT |
| 12 | RUDDER PINTLES | UPPER & LOWER |
| 13 | SCREW GUDGEONS | UPPER & LOWER |
| 14 | SHEET BLOCK | ON TRAVELER |
| 15 | SHEET BLOCK | ATTACHED TO WORM |
| 16 | EYE STRAP | ON BOOM |
| 17 | GOOSENECK | ON BOOM |
| 18 | GOOSENECK BAND | ON MAST |
| 19 | MAST EYE BOLT | |
| 20 | MAST WYTHE | ON MAST |
| 21 | PEAK HALLIARD BLOCK | ON MAST BAND |
| 22 | PEAK HALLIARD BLOCK | ON BRIDLE |
| 23 | THROAT HALLIARD BLOCK | ON MAST |
| 24 | THROAT HALLIARD BLOCK | ON GAFF |
| 25 | TOGGLE | |
| 26 | CLAPPER | |
| 27 | GAFF JAWS | ONE TO RIGHT HAND ONE TO LEFT HAND |
| 28 | MAST HOOPS | FIVE REQUIRED |
| 29 | BOOM CRUTCH CLEAT | |
| 30 | BOOM CRUTCH SOCKET | |
| 31 | BRASS PIN | TO HOLD CENTERBOARD UP 12" LONG FROM EYE BOLT TO HOLE IN STEMHEAD FITTING |
| 32 | HEADSTAY | |
| 33 | SHROULDS (PORT & STARBOARD) | 12" LONG FROM EYE BOLT TO HOLE IN CHAIN PLATE |
| 34 | TILLER | |

BEETLE CAT BOAT

SAIL PLAN and DECK PLAN

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 South Dartmouth, Massachusetts

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scale 1" = 1'