



Box 2320, SF-68555 BOSUND
FINLAND

DESIGN SPECIFICATION FOR BALTIC 46

DIMENSIONS

Length overall	(Approx.)	46,25 ft.	(14,09m.)
Waterline	"	38,25 ft.	(11,67m.)
Beam	"	13,75 ft.	(4,17m.)
Draft	"	7,5 ft.	(2,29m.)
Displacement	"	26,700 lbs.	(12,120kg.)
Rating	"	36,0 ft.	(10,97m.)

Designed by

C & C YACHTS DESIGN GROUP, PORT CREDIT, ONTARIO, CANADA.

Built by

OY BALTIC YACHT AB, BOSUND, PIETARSAARI, FINLAND.

The C & C 46 is the latest design from C & C and is to be built in a limited series to the very highest standard of equipment and finish by OY BALTIC YACHT AB in Finland

The design is intended for serious Ocean Racing Competition and her deck layout and equipment have been carefully studied for this. Comfort has not been neglected in any way during design. The large cockpit and clear deck provides efficiency during racing activity and space for cruising comfort or dockside party.

The interior provides a separate owners cabin aft with twin berths and appropriate fittings. Forward the Navigation and Galley area are laid out carefully to give space, light and good ventilation. The saloon provides comfortable sitting or sleeping accommodation again with attention given to ventilation and a spacious feel.

The interior trim and finish reflect the use of woodwork in the best Finnish tradition.

Hull

CONSTRUCTION

Balsa core fibreglass sandwich using fibreglass mat, unidirectional roving and mat/roving combination to develop an extremely rigid yet light and well insulated structure. All high stress areas are specially strengthened with build up of unidirectional roving oriented in the direction of the stress.

Transverse floors and longitudinal stringers are made up of unidirectional roving and fabmat around a low density core. There are limber holes in floors to allow drainage to sump.

Deck

Hand lay up moulded fibreglass with balsa core for stiffening and insulation, high density core reinforcing incorporated in way of winches and fittings. The deck has a high strength/weight ratio and is bonded to the hull with layers of roving and through bolted.
A LAID TEAK DECK IS AVAILABLE AS AN OPTIONAL EXTRA.

Ballast

An external fin keel, cast to high accuracy in lead with added antimony, is through bolted to the hull.

Rudder

The cantilevered balanced spade rudder is moulded from fibreglass and fitted with a stainless steel rudder stock. The rudder stock passes through bronze bearings and a stuffing box which is strongly bonded into the hull.

Steering

By "Destroyer type" wheel mounted on an aluminium pedestal connected with the quadrant by cable and sheave. The steerer has sprockets and non magnetic chains leading to steering cables. Steering cables are stainless steel wire rope and the cable sheaves have a core diameter of not less than 20 times wire diameter. Steering sheaves are mounted on brackets securely bonded to the structure. An emergency stainless steel tiller is provided.

Engine Beds

Incorporated in hull. Special care is taken to ensure a rigid foundation and correct bonding.

Mast Step

Fabricated galvanised steel mast step bolted to reinforced floors and stringers. Provision incorporated for adjustment to vary mast rake.

Chain Plates

Stainless steel through bolted to longitudinal or transverse bulkheads which are securely bonded to the hull and deck. Plates are large in area and provided with backing plates to spread loads adequately. Chainplates are grounded to a keel bolt.

Stem Head Fitting

Custom fabricated fitting recessed in deck provides twin jib tack fitting and genoa cunningham sheave.

Toe Rail

C & C originated the concept of a full length genoa sheeting rail providing structural rigidity for the hull/deck join and a multi purpose sheet take off point.

The stanchion bases are attached to the toe rail. The toe rail is anodised for protection.

Colour Pigments

High quality abrasion resistant colour pigments are used in the gel coat.

Hardware and Fastenings

Best quality marine standard used throughout.

Limber Holes

Provided to drain to sump.

Bilge

Access provided as practical to the bilge.

Bulkheads and Intercostals

Marine grade waterproof plywood. (Teak faced on visible surfaces).

	EQUIPMENT
Compass	1 x 6" card compass mounted in dome binnacle of steering pedestal with appropriate lighting.
Safety Equipment	A pulpit and pushpit of best quality stainless steel tube are mounted on the bow and transom. Double life lines are installed passing through stainless steel stanchions. The life lines are in stainless steel wire (plastic coated for top line) and set up with turnbuckles at the after end. The pulpit is fitted with navigation lights and the pushpit with a stern light. The height of pulpits stanchions spacing distance etc. conforms to O.R.C. requirements.
Liferaft Stowage	Stowage is provided for liferafts under the seat benches in the cockpit. Where the optional open "Tee" cockpit arrangement is provided mountings for the liferaft will be provided on deck secured to strong points.
	ACCOMMODATION
Forward	Sail stowage in bins. Pipe berths (Port and Starboard) over.
Main Saloon	Hanging locker. A full length dry clothes locker is provided to Starboard. Bureau and Drawers provided to Port. Pilot Berths (Port and Starboard). Settee Berths (Port and Starboard) Bin stowage under berths. Centre table with folding wings, deep fiddles and centre stowage. All berths provided with cushions from 4" foam mattress covered with durable fabric and fitted with zippers. Lee boards are provided.
Galley	"U" shaped galley provided with: <ul style="list-style-type: none"> * 3 burner gimballed propane stove with oven. * Twin propane tanks located in bins under helmsmans seats vented to waterline with shut off at bottle and stove. * Large Icebox with grating for drainage. * Dry food stowage lockers. * Stowage for cooking utensils. * Garbage container (plastic) * Overhead stowage for crockery etc. * Adequate drawers, glass racks etc. for stowage. * Cutting Board on work top. * "Formica" covered work top with deep fiddles to counter top. * Twin stainless steel sink unit with foot operated waterpump (sea water). * Pressure operated fresh water system. * Standby freshwater pump (foot operated).
Navigation Area	Compartmented Navigation Table with stowage for charts, pencils etc. Ample bulkhead space for mounting electronic instruments, radio equipment etc. Master electrical panel with circuit breakers and switches located by navigator. Navigators light.
Companionway	Stowage under stairs provides: <ul style="list-style-type: none"> * Individual crew lockers for safety harness, lifejacket, "onwatch" requirements etc. * Wet oilsk in and seaboot stowage. * Toolbox stowage under stairway.
Toilet Compartment	Moulded GRP basin in special hygenic gel coat. Counter unit and lockers with ample provision for crew stowage. Toilet (Baby Blake) with overboard discharge. Shower unit with teak grating and drain to sump.
Aft Cabin	Full length dry storage locker for shore clothes to starboard. Drawer storage unit under Twin seats with quarter berths (Port and Starboard) outboard. Seats and berths have 4" foam mattress and bin stowage under. Lee boards standard. Mirror and vanity unit on bulkhead. Table and glass stowage between seat units.
	GENERAL INTERIOR WORK
Woodwork	Joinery work is to the highest standard. All doors provided with retaining hooks and swing stops. Kick plates on steps and chafing pieces on sills are provided.
Hardware	Best quality marine standard.
Cabin Sole	Teak slats for drainage in sail room otherwise laid teak veneer. Traps and lifting handles provided.
Hatches and Ventilation	Forehatch — Goyot type tinted glass. Midship hatches — Goyot type tinted glass. Main Companionway hatch — sliding - tinted perspex with lock and washboards. Aft Cabin — Two opening Ports with screw down fasteners mounted in cockpit well.
Windows	Windows in cabin trunk are fixed.
Dorade Boxes	4 teak Dorade boxes with 4" diameter P.V.C. cowl vents and cover plates.
Engine Access	Removable hatch with extensive sound insulation.
Shelves, Drawers and Lockers	Locker doors have ventilation provided. Drawers have security catch.
Hand Rails	Ample hand and grab rails provided. Teak.
	PAINTING
Topsides/Transom	Gelcoat as selected.
Cove Stripe	Gelcoat as selected.
Boot Top	Gelcoat as selected.
Bottom	Primed with antifouling.
Cabin Interior	Varnished Teak. Hand rubbed. Interior locker surfaces painted. Cabin Sole — oiled Teak.

HEADLINER

Vinyl covered detachable panels for access to wiring, deck hardware etc.

MACHINERY

Engine	Perkins 4 – 108 Marine Diesel with Hydro Marine Hydraulic Drive 2:1 Reduction.
Engine Controls	Morse.
Alternator	12v. 85 Amps.
Fuel Tank	Stainless steel 1mp 38 gallon (173 litre) Tank has single deck mounted fill marked FUEL.
Fuel System	All fuel lines and shut off valves are to appropriate standards.
Propeller and Shaft	Bronze two bladed folding propeller, 1¼" S.S. shaft through stuffing box and appropriate P bracket and bearings.
Engine Exhaust and Cooling System	Consists of water cooled exhaust system. All sea cocks exhaust components and through hull fittings to appropriate standards.
Accessory and Control Panel	Switch panel and engine instruments located near helmsman.

Drip Pan Oiltight fibreglass drip pan provided under engine.
Accessible sump.

ELECTRICAL

Main System	12 Volt D.C. ungrounded system throughout. Master battery switch and electrical panel provided in Navigation Area with appropriate circuit breakers.
Engine Start	Separate 12 Volt D.C. 100 Amp Hours (Min.)
Service Batteries	12 Volt D.C. 200 Amp Hours (Min.)
Alternator	(On Main Engine) 12 V. 85 A.
Water Pressure Pump	Cold water system 12 Volt D.C.
Exterior Lighting	Pair side lights (Red/Green). Stern Light (High intensity white). Bow light/deck flood light (White). Masthead light (White). Compass light (Red).
Interior Lighting	Navigators light. 8 Dome lights (White & Red). 3 Fluorescent lights. 4 Foot lights (Red).
Charging System	Starting and Service batteries charge simultaneously with separation provided by current blocking diodes.
Lighting Protection	Chainplates, backstay and headstay all grounded to keel bolts.

PLUMBING

Sea Cocks	Bronze sea cocks used on through hull connections below the waterline. All openings flush with hull. Hoses secured with S/S clips.
Cockpit Drainage	Cockpit is self draining and meets O.R.C. specifications.
Fresh Water Tanks	Stainless steel - 2 provided. Capacity 80 Imp. gallons (364 litres). Provided with twin deck fills marked WATER. Separate shut offs provided at tank.
Fresh Water Pumps	12 Volts D.C. pressure system.
Outlets	Galley – sink. Toilet – washbasin and shower
Foot Operated Pump (Fresh Water)	Galley – sink.
Foot Operated Pump (Salt Water)	Galley – sink.
Bilge Pumps	Two diaphragm type hand operated installed. One located in cockpit, one located below decks.
Toilet	Marine toilet is fitted discharged through a vented loop and accessible sea cock.

SPARS

General	Specifications as issued by C & C Design Group.
Main Mast	Anodised aluminium alloy hollow with oval section. The mast is wired internally for mast head light, bow and deck floodlight. The mast is provided with aluminium aerofoil section spreaders. Tangs and halyards are internal. Appropriate exit sheaves, swivel exits for topping lifts and spinnaker halyard blocks are provided. Spinnaker pole track and heel hoist.
Main Boom	Anodised aluminium alloy hollow section. Slab reef with cheek blocks, outhaul and reefing winch.
Spinnaker Poles	Anodised aluminium alloy hollow section with shotgun type outboard end fitting and stud inboard end fitting
Reaching Strut	Anodised aluminium alloy with fitted sheave on outboard end and stud fitting on inboard end.

STANDING RIGGING LIST

Rigging is in stainless steel rod with appropriate end fittings and toggles. A mechanical backstay adjuster is provided as standard.

S/S Rod:
1 headstay
1 backstay
2 main shrouds
2 lower shrouds
2 intermediate shrouds
2 upper shrouds

1/19 S/S Wire: 1 midstay with release lever

RUNNING RIGGING LIST

7/19 S/S Wire plus terylene tails as appropriate

Description	Qty.	Dimension
Main Halyard with shackle	1	5mm. (3/16")
		12mm. (1/2") braid
Main Topping Lift	1	4mm (1/8")
		10mm. (3/8") braid
Mainsheet	1	16mm. (5/8") braid
Boom Vang with snap shackle	2	16mm. (5/8") braid
Genoa Halyard with snap shackle	2	6mm. (1/4")
		12mm. (1/2") braid
Genoa Sheet	2	16mm. (5/8") braid
Light Sheet	2	12mm. (1/2") braid
Short Sheet and snap shackle	1	16mm. (5/8") braid
Spinnaker Halyard with snap shackle	2	12mm. (1/2") braid
Spinnaker Sheets with snap shackle	2	12mm. (1/2") braid
Spinnaker Afterguy with snap shackle	2	16mm. (5/8") braid
Spinnaker Foreguy and shackle	2	12mm. (1/2") braid
Spinnaker pole lift with shackle	2	6mm. (1/4")
		12mm. (1/2") braid
Floater Sheets	2	6mm. (1/4") braid
Docking Lines (40 feet)	4	16mm. (5/8") nylon
Anchor Line (160 feet) (50m).	1	16mm. (5/8")

WINCH LIST – BARIENT

Main Halyard	1 x No. 22	Stainless Steel
Main Sheet	1 x No. 28	Aluminium
Outhaul/Reef (1 and 3)	1 x No. 10	Aluminium
Reef (Flat and 2)	1 x No. 22	Aluminium
Cunningham	1 x No. 20	Aluminium
Boom Vang/Secondary	2 x No. 22	Aluminium
Genoa Halyard	2 x No. 28	Stainless Steel
Genoa Sheet	2 x No. 35	Aluminium
Spinnaker Halyard	1 x No. 26	Aluminium
Spinnaker Sheet	2 x No. 28	Aluminium
Spinnaker Pole to Topping Lift	1 x No. 20	Aluminium

Handles	1 x Plain 10"
	1 x Double 10"
	2 x Lock in 10"

Handle Holders 3 Supplied

STANDARD EQUIPMENT ALSO INCLUDES:

4 Fenders (airfilled)
1 Boathook
1 Flagstaff
1 Bosuns Chair
2 Roller type genoa cars
2 "Spreacher" type blocks
4 Standard genoa sliders
2 large Snatch blocks
4 medium Snatch Blocks
2 double Footblocks
1 12kg. Anchor with Chain

Instruction Manuals on engine, electrical system and water system.

SPECIFICATION

C & C Yachts reserve the right to amend price, specification, materials and equipment without notice.

BUILT AND MARKETING BY

Oy Baltic Yacht Ab
Box 2320
68555 Bosund
FINLAND
Telephone: (9)67-83070
Telex 75-62 yacht sf