



Pacific Asian Enterprises, Inc.  
 PO Box 874 • Dana Point, CA 92629  
 (949) 496-4848 phone (949) 240-2398 fax

## N47 European Standard Specifications

Updated 06.17.09

<b>A.</b>		<b>GENERAL DIMENSIONS</b>
	1	LOA: 14.53 m (47' 8")
	2	LWL: 13.21 m (43' 4")
	3	BEAM: 4.9 m (16' 1")
	4	DRAFT: 1.8 m (5' 11")
	5	DISPLACEMENT: 38.56 METRIC TONS (85,000 LBS)
	6	WATER CAPACITY: 1,514.2 LITERS (400 US GALLONS)
	7	FUEL CAPACITY: 5,564.6 LITERS (1,470 US GALLONS)
	8	HOLDING TANK CAPACITY: 454.2 LITERS (120 US GALLONS)
	9	GRAY WATER TANK CAPACITY: 416.4 LITERS (110 US GALLONS)
<b>B.</b>		<b>BASIC STRUCTURE</b>
	1	<b>Hull lamination</b> schedule per construction plan
		a Vinylester resin used in first laminations
		b All exterior gelcoat to be White Ferro Super Shield on superstructure and Arocoat brand on hull and non-skid
	2	<b>Deck lamination</b> schedule per construction plan
	3	<b>Core:</b>
		a Cabin side (vertical surfaces): Foam Klegcell R75 or equivalent cross-linked foam
		b Cabin top and deck (horizontal surfaces): E.G.B. (3.4 kg - 4.5 kg) (9-12 lbs.) per sq ft. Baltek
		c Hull interior: solid series of laminates
	4	<b>Deck/hull joint:</b>
		a Between deck and hull flange: 3M 5200
		b Inside of joint: Two (2) layers M & W.R.
		c Mechanical fastening: 6.35 mm (1/4") x 20unc S.S. thrubolt on 15.2 cm (6") centers where accessible. In areas that cannot be accessed self-tapping machine screws used
	5	<b>Longitudinal Stringer</b>
		a Hull: port and starboard, engine beds and floor stringers - topside stringers - longitudinal and vertical
		b Deck: per design



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6		<b>Interior floors:</b> per design - for salon floor and forward engine room bulkhead structure to be of Nidacore composite as done on N50
7		<b>Ballast:</b> Lead approx. 3.36 metric tons (7,400 lbs)
8		<b>Gelcoat colors</b> (standard boat)
	a	Hull: Arocoat #340 gray
	b	Deck: Ferro White Supershield
	c	Non-skid: Arocoat - light gray - to match CCP color chart #A139
	d	Boot-top and stack stripes: Arocoat #348 dark blue
<b>C.</b>		<b>STANDARD MACHINERY DETAILS</b>
1		<b>LUGGER L1066T.2 Diesel - 165 HP @ 2,400 rpm</b>
	a	ZFW 220 3.96 to 1.00 Transmission
	b	One (1) x 24 volt 175 amp Leese Neville large case alternator to charge house batteries. One (1) x 24 volt 40 amp small case alternator to charge starting batteries.
	c	SAE "A" hydraulic pump drive, gear driven on timing cover
	d	Port for transmission PTO SAE "B", live drive system
	e	Engine instrument panel: deluxe with instrumentation for oil pressure, water temperature, voltage, revolutions, hour meter, with alarms
	f	Engine control levers Morse model #31001-001 Twin S
	g	Control cables to be NW A5805, Glenndening Cable Co.
	h	Fernstrum Grid Cooler - model #D848U-E1
2		<b>Propeller shaft:</b> 5.7 cm (2 1/4") A17
	a	Taper details: standard S.A.E. taper
3		<b>Propeller:</b> 4-bladed bronze, 86.4 cm diameter x 81.28 cm pitch (34" d x 32" p) - left hand rotation
4		<b>Stern tube:</b> FRP
	a	Bearings: rubber cutlass type at aft end
	b	Stuffing Box: bronze
5		<b>Fuel filters:</b> Duplex 75-900 - Racor #75-900FGX2 Max30 plus engine mounted filter x one (1)
6		<b>Dry Exhaust:</b> 10.2 cm (4") diameter stainless steel
	a	Flexible section: stainless steel "wrinkle belly"
	b	In line muffler: Harco model #1242VCS4. Exhaust cap: stainless steel with slots to deter water
	c	Exhaust to run to masthead
	d	Drain valve at turn of exhaust to drain off water while vessel is unattended
	e	Exhaust sleeve blower: Dayton 230 volt #2C915 x one (1)
7		<b>Heat insulation material:</b> Entire exhaust system wrapped with custom exhaust blanket



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8		<b>Engine cooling system</b> to be filled with suitable mixture of coolant/antifreeze to insure coolant does not freeze for winter shipment
9		<b>Engine room floors:</b> Gray - FRP with non-skid - no wood structure used within engine room
10		<b>Engine room finish:</b> painted gray and insulated with Technitron or equivalent fire proof foiled and leaded foam 5.08 cm (2") thick. All exposed insulated surfaces to be lined with perforated anodized aluminum sheets
11		<b>Engine room blowers:</b> Dayton 230 volt #2C915 x two (2)
12		<b>Stainless steel railing</b> around engine
13		<b>Fire suppression system</b> in engine room (per CE compliance regulations)
<b>D.</b>		<b>STEERING SYSTEM</b>
1		<b>Hynautic hydraulic steering system</b> comprised of the following components:
	a	Slave cylinder SeaStar #HC5373HY
	b	Helm pump model #H-21
	c	Reservoir model #R-06
	d	Relief valve MSV-21
2		<b>Hydraulic lines:</b> Hynautic brand/copper tubing
3		<b>Steering wheel:</b> 45.7 cm (18") stainless steel with power knob. Installed on angled base.
4		<b>Emergency tiller:</b> to attach to top of rudder post and stow in lazarette
5		<b>By-pass valve</b> for emergency tiller steering
<b>E.</b>		<b>RUDDER</b>
1		<b>Rudder stock:</b> 5.715 cm (2-1/4") stainless steel
2		<b>Rudder backbone plate:</b> 9.5 mm (3/8") stainless steel with lightening holes per design
3		<b>Bronze rudder carrier shoe:</b> cast bronze per design
4		<b>Rudder carrier top:</b> FRP with pillow block bearing per design
5		<b>Rubber cutlass bearing</b> at rudder port opening
6		<b>Rudder stock stuffing box:</b> bronze



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	7	<b>Rudder stock tube:</b> FRP
<b>F.</b>		<b>PLUMBING SYSTEM</b>
	1	<b>Water tank:</b>
	a	Number and capacity: One (1) baffled tank totaling 1514 Liters (400 US gallons)
	b	FRP construction per plan
	c	Inspection plates: appropriately positioned for access
	d	See through port for noting water level
	e	Each tank air tested: 4 lbs per sq. inch
	f	Wema water tank gauge
	g	System built per PAE design
	h	Water tank laid up with FDA approved gel coat on first coat.
	2	<b>Fuel tank:</b>
	a	Number and capacity: Two (2) main tanks totaling 5299 Liters (1400 US gallons) with one (1) centerline aluminum "Day Tank" at 264.95 Liters (70 US gallons) which will gravity feed from main wing tanks
	b	FRP construction per plan
	c	Inspection plates appropriately positioned for interior access by average size man. Each internal baffle with a removable panel to allow access to entire interior of both fuel tanks
	d	Fuel system to include an aluminum supply reservoir, which feeds by gravity from both fuel tanks. Top part of supply reservoir to hold approximately 7.6 Liters (2 US gallons) and fitted with a sight gauge with a 3.8 Liters (1 US gallon) range and .4 Liters (10th US gallon) marks for fuel consumption checks (supply lines are turned off and fuel is consumed from reservoir). Bottom part of reservoir to be approximately 257.4 Liters (68 US gallons) fitted with a drain off at the bottom of the reservoir for water purging and with a water sensor - illuminating a light in wheelhouse if excessive water is present. Reservoir fitted with four (4) draw spigots for main, generator, wing engine and spare - mounted at lower level of reservoir but above water sensing probe. All returns from main, wing and generator plumbed into reservoir
	e	Sight gauges provided for both fuel tanks and is vented into main vent system for each tank
	f	Each tank to be air tested to 0.28 bar (4 lbs) per sq. inch.
	g	Provide baffles on 61 cm (24") centers
	h	A transfer manifold and Walbro (FBR-16-2) 24 volt fuel pump with timer switch and Racor 900 fuel filter which can transfer fuel from one tank to another and scrub fuel while transferring. Transfer is also used to fill top part of supply reservoir for consumption testing when main fuel tank level drops below the level of the testing part of the reservoir
	i	System to be built per PAE design
	3	<b>Fuel pipe and hose:</b>
	a	Supply lines from tanks to supply reservoir are 1.9 cm (3/4") I.D. with Aeroquip brand fuel hose and swaged fittings
	b	Fuel line from supply reservoir to main engine filter is 1.9 cm (3/4") I.D. with Aeroquip brand fuel hose and swaged fittings



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	d	Fuel lines from supply reservoir to optional generator and wing engine to be 1.27 cm (1/2") I.D. with Aeroquip brand fuel hose and swaged fittings
	e	Vent lines to be fuel certified, reinforced hose 1.9 cm (3/4") I.D.
4		<b>Water hoses:</b>
	a	Cold water: 1.27 cm (1/2") diameter Whale brand tubing system or equivalent with all Whale fittings
	b	Hot water: 1.27 cm (1/2") diameter Whale tubing with all Whale fittings
	c	Sea water hoses: Trident reinforced rubber certified for marine use and provided with double stainless steel clamps below the water line
5		<b>Water heater:</b> Seaward 41.69 Liters (11 US gallons) #S1150 for 240 volt and heat exchanger operation
6		<b>Thru Hulls:</b> bronze body, stainless steel balls and Teflon seats
	a	Grounding wire: #6 gauge green wire run to 3.2 mm x 19 mm (1/8" x 3/4") copper strap that runs down both sides of hull.
	b	Each thru hull to have a clearly visible tag indicating its function
7		<b>Fresh water pressure pump:</b> One (1) - 12 volt / 24 volt Jabsco Sensor Max VSD #31755-0000
8		<b>Plumbing fixtures:</b>
	a	Head sink: Sea-Land #K-2209 oval, color white
	b	Galley sink: double stainless steel corner Sterling model #CMG-804
	c	Head faucets: Grohe model #33413 001 chrome
	d	Galley faucets: Grohe model #32999 KDO
	e	Shower fixtures: Grohe chrome #28.421 handle
		#28.856 soap tray
		#28.666 61 cm (24") shower bar
		#28.151 non-metallic hose
		#35.253 mixer
9		<b>Gray Water Tank:</b>
		Galley sink, head sinks, shower sumps and washing machine drain to 416.4 Liters (110 US gallons) sump tank. Each drain to have an appropriate water trap to control odors. Sump to include Sealand Tank Watch 4 level indicator and a Sealand T24 Waste Pump fitted with an Ultra Jr. pump switch and auto/manual control panel. Whale/Henderson #BP0527 hand operated diaphragm bilge pump to be installed in line with Sealand T24 for manual pumping of gray water tank per PAE design
10		<b>Bilge pumps:</b> per PAE design
	a	Electric: Par 34600-00 diaphragm with Ultraswitch auto switch
	b	Manual: Edson model #638AL operable from main salon
	c	High water bilge pump Rule 14,006 Liters (3700 gallons) per hour (16A) - mounted in bilge above normal bilge water height including Ultra Sr. pump switch #UPS/01/24 volt and Ultra bilge alarm #AS-201
11		<b>Toilets:</b>
	a	Tecma Silence Plus Heads #38111 fresh water flush only



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	b	Head fitted with a Par #45510-1000 Y valve allowing sewage to be pumped overboard or into holding tank.
	c	Holding tank: FRP
	d	Holding tank pump: Sealand T-24, 24 volt plus Whale/Henderson #BP0527 hand operated diaphragm pumps to be installed in-line with each other per PAE design
	e	Holding tank fitted with a deck pump out
	f	Sealand Tank Watch 4 monitoring system
12		<b>Hoses</b> throughout boat to be Trident brand - where practical
13		<b>Gas system:</b>
	a	Two (2) Calor propane gas bottles to be installed in gas locker
	b	Xantex control panel and detection system S-2A and MS-2 sniffer / 24-12 volt converter (CVN 24-12)
	c	Two stage gas regulator
	d	Trident 'Pig Tail' hoses x two (2) #1014140120
	e	All necessary pipe fittings and adapters
<b>G.</b>		<b>ELECTRICAL SYSTEM</b>
1		<b>Electrical panel set</b> consisting of the following:
	a	One (1) Electrical panel
	b	One (1) parallel switch for emergency engine/house battery paralleling
	c	Engine battery shut off switch and panel
2		<b>Shore power inlets &amp; AC system</b> per PAE design
	a	Marinco #6371EL-BX Stainless Steel 32A (50A) 230 volt 50 Hz
	b	Olsun isolation transformer SGS 12 YY-0-15
	c	All galley and head outlets RCD protected
3		<b>Battery and DC system</b> per PAE design
	a	4 x 255+ AH (8D) Lifeline batteries for house appliances (510 amp hours) and two additional 4Ds for 24v engine starting. The engine starting batteries are isolated from the house batteries, preventing inadvertent discharge of the engine starting battery. The main engine has dual alternators (1 x 175 amp 24v large case for charging house bank and 1 x 40 amp 24v for charging engine batteries). Parallel switches provide for emergency engine starting
	b	One (1) "Group 31" Lifeline battery with 20 amp 12 volt charger to be installed in pilot house for any 12 volt needs. There will be 12 volt section on the DC panel for optional 12 volt breakers.
	c	Each battery secured with stainless steel tiedown beams
4		<b>Battery cable:</b> to be "00" for general battery leads with "0000" for starting and optional bow thruster
	a	Positive lead to be red
	b	Negative lead to be black
5		<b>All wiring</b> used throughout boat to be color coded - all wire supplied by factory to be tinned wire



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6		<b>Conduits</b> for future installations
	a	PVC from mast step to pilothouse
	b	PVC from engine room to pilothouse
7		<b>Radio ground plane</b> (optional)
8		<b>Electrolytic control:</b>
	a	All thru hulls to be bonded together with a #6 green wire and tied into the 24 volt DC ground system
	b	All hardware mounted below waterline i.e. stuffing box, stern bearing housing, rudder shoe, rudder frame, rudder stuffing box to be grounded into bonding system
	c	Zinc plates: Three (3) x 5.08 cm x 14.6 cm (2-1/2" x 5-3/4") zinc plates tied into the bonding system
9		<b>A.C. Generator</b> (optional)
	a	Foundation to be provided within the engine room to accommodate up to a 12 kW 50 Hz generator
	b	Electrical panel to accommodate AC ship's power
10		<b>Inverter/Charger</b> - 3 kW, 24 volt inverter / charger with remote panel
11		<b>Inverter bypass switch</b> located near inverter for use if inverter should fail.
12		<b>TV/phone inlet</b> Maringo #PH6592TV-SS phone wired to pilothouse and owner's cabin. TV wired to salon TV locker and owner's cabin
<b>H.</b>		<b>INTERIOR FINISH AND INTERIOR EQUIPMENT</b>
		Per PAE design
1		<b>Galley</b>
	a	Refrigerator: Sub Zero #700TCI with icemaker
	b	Countertops: "Granite" - from PAE selection
	c	Flooring: ceramic tile or or Teak and Spruce sole.
	d	Cabinetry/paneling - teak with satin varnish
	e	Bosch Model #PHL 206 MEU-70cm wide gas hob - Brushed Stainless w/ LPG kit
	f	Bosch Model #HMT 96660B Built-in Microwave oven (Black)
	g	Bosch Model #HBN 430561B - Single Multifunction Oven (Black)
	h	Broan Model # 1055EX 30.5 cm (12") Trash Compactor (Black)
	i	Overhead: individual padded Majalite vinyl panels secured in place with 3M industrial Velcro and easily removable for service of deck hardware and wiring
	j	Locker interior finish: Formica/w teak trim
	k	Added combo refrigerator / freezer - Sub Zero model #UC-24C-RH
	l	Bosch Model # WAS 28466 Logixx 1400 Washing Machine (White)
	m	Bosch Model #WTV74103GB Classixx Vented Dryer (White)
2		<b>Main Salon</b>
	a	Teak and spruce floors



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	b	Cabinetry/paneling: teak with satin varnish
	c	Dinette table: teak
	d	Furniture: settees as designed with all detail as shown in layout drawing
	e	Overhead: individual padded vinyl Majalite panel secured in place with 3M industrial Velcro
	f	Locker interior finish: teak
	g	Cushions with vinyl upholstery
	h	Teak valance over windows
3		<b>Master Cabin</b>
	a	Floors: teak and spruce
	b	Cabinetry/paneling: teak paneling - satin varnished with teak trim
	c	Mirror above dresser
	d	Ventilation hatch - Lewmar Ocean # 20 Flat Base
	e	Overhead: individual padded vinyl panels secured in place with 3M industrial Velcro
	f	Locker interior finish: Cedar wood/w white formica sole
	g	Foam mattress with vinyl upholstery
	h	All visible hull surfaces within stateroom (not including locker interiors) - to have horizontal teak staving
	i	Counter tops black formica
4		<b>Heads</b>
	a	Floors: ceramic tile or Teak and spruce
	b	Countertop: "Granite" - from PAE selection
	d	Mirrors in front of sink. Opening doors
	c	Shower pan - white - gelcoated FRP with non-skid including aluminum and glass bi-fold shower doors
	d	Overhead: individual padded Majalite vinyl panels secured in place with 3M industrial Velcro
	f	Locker interior finish: FRP/formica/w white painted trim
	g	Exhaust blower: 24 volt Rule 140 on 30 minute timer
	h	Stainless steel towel bars
	i	Head and interior cabinetry to be FRP
5		<b>Forepeak</b>
	a	Painted with grey gelcoat
	b	Drain to bilge through a PVC pipe installed during hull lamination
6		<b>Pilothouse</b> - New Layout - Settee moved aft 30.5 cm (12") allowing additional floor space.
	a	Floors: teak and spruce
	b	Cabinetry/joinery work: satin varnished teak
	c	Countertops and dash panels: black formica
	d	Overhead: individual padded Majalite vinyl panels secured in place with 3M industrial Velcro
	e	Table: Teak
	f	Locker interior finish: FRP/formica
	g	Cushions with vinyl upholstery
	h	Chart light: Imtra 24 volt LED Vulcano/L #CN72302
	i	Teak louvers on tops of console for ventilation of electronics
	j	Chart drawers under settee



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	7	<b>Guest Cabin</b>
	a	Floors: teak and spruce
	b	Cabinetry/paneling: teak paneling - satin varnish with teak trim
	c	Overhead: individual padded vinyl Majalite panels secured in place with industrial Velcro
	d	Locker interior finish: Cedar wood/w white formica sole
	e	Mattress: foam with vinyl cover
	f	Stainless steel upholstered stool at desk on swivel with bulkhead mount
	g	All visible hull surfaces within stateroom (not including locker interiors) - to have horizontal teak staving
	h	Counter tops black formica
	8	<b>All locker doors</b> to have push button style latches
	9	<b>All interior stateroom doors</b> to be Mobella hardware
	10	<b>Lighting</b>
	a	Main overhead lighting throughout: Cantalupi "Walter" 2001 with wall switches for each designated area. (Approx. 45 lights)
	b	Bulkhead reading lights in staterooms: Three (3) x Cantalupi "Time" in the guest stateroom and One (1) x Cantalupi "Time" for the PH bunk.
	c	Engine room lights: AC fluorescent - Four (4) x 61 cm (24") dual fluorescent (#ILMUL2-24T5HPF1) switch at entrance to engine room. Additionally - Six (6) x 24 volt dome lights in engine room - three (3) x 24 volt dome lights in lazarette
	d	Exterior dome lights: Cantalupi "Tuna" #CN20901 (2 on aft deck and 2 on side deck)
	e	Navigation lights: Hella P&S #62210/62209, stern #62208
	f	Owners cabin reading lights: Cantalupi "Vienna" chrome x two (2)
	g	Courtesy lights Cantalupi "Storm"
	h	Vanity lights: Cantalupi "Tebe" 2000. Two (2) at owners stateroom vanity, two (2) at owners sink, two (2) at guest sink. (6 total)
	i	Aft salon bulkhead mount lights: Cantalupi "Alfa" Chrome with white/cream shade 24 volt x two (2)
	11	<b>All hand rails</b> shown on standard drawing to be included
	I.	<b>EXTERIOR, DECK HARDWARE AND EQUIPMENT</b>
	1	<b>All horizontal surfaces</b> on deck have a diamond pattern non-skid as shown in deck plan. Standard non-skid to be a contrasting color to parameter deck
	2	<b>Chocks for mooring lines:</b>
	1	* Transom: stainless steel with attached cleat - recessed x one (1)
	2	* Transom sides: stainless steel with attached cleat - recessed x two (2)
	3	* Amidships: stainless steel with attached cleat - recessed x two (2)
	4	* Bow: stainless steel with attached cleat x two (2)
	5	* 30.5 cm (12") stainless steel cleat at bow x one (1)



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3	<b>Lower and upper rubrails</b> FRP with a stainless steel cap - rub rails integral to hull
4	<b>Ports</b> - Oval 40.6 cm x 17.8 cm (16" x 7") stainless steel ports in hull as shown on design with tempered glass - all hull ports to include stainless steel deadlights - seven (7) in hull, one (1) in galley
5	<b>Stainless steel double bow roller</b> to accommodate a 49.9 kg (110 lb) Delta or 47.6 kg (105 lb) CQR anchor on starboard roller and the port roller to be designed for a second light anchor or for mooring lines. Roller on starboard side to be slotted for chain and the port roller to be smooth for line - roller to be built per PAE design
6	<b>Stainless steel stanchions</b> around foredeck to be 3.2 cm (1-1/4") diameter. Pulpit to be 3.2 cm (1-1/4") diameter
7	<b>Windlass</b> - A Maxwell 24 volt VWC 3500 windlass to be mounted on a molded FRP base
8	<b>Foredeck hatches</b> to be Lewmar #Ocean 70 x one (1), #Ocean 40 x two (2) and #20 Ocean 20 x one (1) with Lewmar screens.
9	<b>Freeman #2442-0002 over chain locker</b>
10	<b>Blower</b> - One (1) inline blower to provide forced ventilation from inside Portuguese Bridge to owner's cabin
11	<b>Dorade vents</b> at aft end of foredeck: molded FRP to service guest cabin x two (2)
12	<b>Dorade vents</b> on wheelhouse roof: molded FRP x two (2)
13	<b>Windshield wipers</b> - Imtra 2-speed with auto park RC524992 - use EX2108K parallel arm x four (4), with window wash system
14	<b>Horn:</b> Kahlenberg K-380, compressor/tank kit, and 12 volt solenoid valve
15	<b>Spar and boom section:</b> Forespar L.P. painted standing rigging: aluminum strong backs. Two (2) Rule electric winches mounted on boom for raising and lowering dinghy. Maximum dinghy weight - .16 Metric Tons (350 lbs.)
15	<b>Transom door:</b> opens outboard
17	<b>Boat deck rail</b> to be 3.2 cm (1-1/4") diameter
18	<b>Hatch</b> in wheelhouse roof to be Lewmar #Ocean 60 x one (1)
19	<b>Deck box</b> on foredeck to have hinged lids with latches and gas shocks and access doors from Portuguese Bridge



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20	<b>Includes FRP swim step extension</b>
21	<b>Two removable "U" shaped stanchions for swim step</b>
22	<b>Stainless steel swim ladder mounted on swim step</b>
23	<b>Stainless steel ladder into lazarette</b>
<b>* Specifications are subject to change at the discretion of designers and builders</b>	