



HORIZON P105 TRI-DECK MOTOR YACHT

2010 Standard Specifications (AUD) (Annex A)

Valid date: May, 2010

Principal dimensions (approximate):

L.O.A.	105'-0"	(32.00 m)
Beam	23'-6"	(7.16 m)
Draft (to Propeller Tip)	6'-4"	(1.93 m)
Height (W.L. to top of arch)	37'-5"	(11.40 M)
Displacement (light approx.)	280,000 lbs.	(125 tons)
Fuel	4,200 US gal.	(16,000 litres)
Fresh Water	1,000 US gal.	(3,800 litres)

A. Main Construction:

General Description

1. Hull Strength & structural scantling design criterion : LCG impact acceleration force=1.0g, including all build-in tanks.
2. ABS/DNV Type approval Fibre / Resin & Sandwich Core Material applied.
3. 4 directional, evenly distributed fibre lamination through whole structure.
4. Fiberglass solid at hull bottom; High-density DIVINYCELL foam cored construction above water line. Both under -29" Hg high vacuum pressure SCRIMP® process.
5. Window size according to wind & wave impact force at Max. Speed, to be compliant with Classification standard.
6. Engine Girder, Windlass, Davit, Thrusters & local structure with Classification standard.

Hull Construction

1. White Gelcoat finish on exterior.
2. One piece hull SCRIMP® lamination w/deep skeg and longitudinal girders.
3. Deck / Superstructure & all sandwich core main structure with SCRIMP® method.
4. High-density DIVINYCELL foam cored construction above water line.
5. Stringers with high density foam coring.
6. Interior structural components all properly bonded to hull.
7. Strong collision bulkhead structure for extra safety.



- INTERNATIONAL 2 anti-fouling bottom paint, w/ 2 anti-osmosis primer treatment.
- Main Engine Girder with 300kg high density foam coring.
- Covered with sound damping materials.

B. Exterior Deck and Equipment:

General Description

- Teak on main deck, stairs & swimming platform.
- High bulwark w/ flush mounted deck lights.
- Solid natural teak cap rail without varnish.
- Accent stripes on hull & deck per design.
- Fiberglass rub rail w/stainless steel cap alone hull side.
- Heavy-duty S/S 2" handrail w/1-1/4" stanchions.
- Stainless flag pole on bow.
- Forward deck seat w/cushions.
- Sunbathing cushion w/ pillow shape on fwd deck w/drink holders.
- Back deck FRP seats w/cushions.
- Back deck high-low dining teak table w/Slider Function. (SOB Deck chairs)
- Select colours of Sunbrella fabric for exterior cushions & sun pad.

Mooring system

- Two hydraulic anchor winches "Maxwell VWC4500" w/chain counter in pilot house w/local plug in control.
- Two electric rope winches "Maxwell VC3500" on aft. Deck w/rope roller.
- Two stainless steel 240 lb. HHP (High holding Type) Pocket anchors.
- Two high tensile 1/2" x 300 feet anchor chains w/chain stopper & Tensioner.
- Freshwater /Sea Water anchor chain wash down system.
- Heavy-duty 316# stainless steel cleats and fairlead w/rollers forward & aft.

Doors, Hatches, Windows & Port Holes

- Four bulwark side doors on forward & aft deck for boarding.
- Two side deck entrance doors on galley.
- Stainless steel "TREND" sliding door w/screen for main salon.
- Solid FRP doors on the entrance to swim platform.
- 2 hatches overhead galley area.
- Tinted tempered glass, including galley forward windshield for sun shield.
- Frameless windows.
- Stainless steel port holes with storm Covers for bow cabin.
- Forward wide opening hatch locker with gas shock for fender and lines.
- Escape hatch above forward cabin area.

Swimming Platform Area



1. Large teak inlay swim platform with curved stairways to back main deck.
2. Built-in shower with hot/cold water above swim platform w/ extra outlets on F/B & Fwd. deck area.
3. Swimming ladder.
4. Stainless steel handrails on sides of back deck stairs.
5. Hand rails around swim platform.

C. Flybridge and Boat Deck:

Skylounge and Upper boat deck

1. Non-skid on whole S/L open deck area.
2. Frameless side windows.
3. FRP cabinet with sink & flush mount, BBQ & extra deck wash faucet.
4. Integral stainless steel handrails around bar unit.
5. Indirect lighting system under bar and seats.
6. Curved stairway from back deck to fly bridge with teak steps.
7. Stainless steel sliding hatch on F/B deck step opening.
8. Oversize drains w/strainers on each corner of flybridge deck with internal overboard drains, all w/ check valves & vent holes.
9. Space for dinghy and Jet Ski.
10. Flag staff on back of flybridge.
11. Hydraulic dinghy davit "STEEL HEAD EZ-2500".
12. FRP Settee & Table per GA design.
13. Hand rails aside of F/B wings for window wash.
14. None skid surface on S/L outside structure for easy window cleaning.
15. Removable hand rails around F/B aft. Deck. 1-1/2".
16. Two sky lights on top of S/L.
17. Four flooding lights, 2 on top of S/L, 2 aft flush mount.
18. "TREND" sliding door w/screen for sky lounge.

Flybridge

1. U shape settee, teak sliding table w/Nautical Sign on top.
2. Non skid deck.
3. Small locker on starboard side.
4. Third control Station with MMC remote control, extra compass and clear access on both sides for docking.
5. FRP co-pilot seat and long L shape FRP seat w/ cushion.
6. Non-skid w/storage cabinet (include fresh & sea water outlet w/water hose) & sun pad cushion aft.
7. Stidd pilot Chairs x 1.
8. S/S 316 radar arch w/antenna bracket & well lighting.



D. Pilot house and instrument:

1. Full width Instrument console with top sky shield & electrical panel.
2. Double "love seat" w/leather.
3. "U" shape leather seats w/ wood high-low table & bed cushion for crew berth.
4. Stereo System w/ well ventilation.
5. Sony TV/DVD (wave radio, CD, DVD all in one unit).
6. U-Line Ref. under TV locker.
7. Pilot Stidd chair x2.
8. General alarm panel monitoring system for important equipment (bilge pumps, blowers, nav Lights).
9. International navigation lights.
10. TOKAI SUNSHIN search lights on both side of radar arch.
11. BUELL triple air horn on top of radar arch.
12. Magnetic compass dual station.
13. Heavy-duty SPEICH Stainless steel wipers w/wiper washer system.
14. Variable speed control on each windshield wiper.

E. Engine Propulsion and Steering system:

1. Twin CAT C-32A 1600hp.
2. ZF2060A reduction gears w/ 2.467 high gear ratio.
3. Live SAE-C PTO on gear box (P&S) for thrusters / windlass & Stabilizer power.
4. Two extra SAE-B PTO on gear box for steering gear hydraulic.
5. MMC engine control system at sky lounge / back deck & Tri Deck all with remote control plug in receptacles.
6. Stainless steel shafts Aquamet 22#.
7. High performance 5 blade propellers S-Class surface.
8. Main and intermediate bronze struts w/backing plates.
9. Shaft and rudder packing glands with TIDES Marine drip less seals or equivalent.
10. Underwater exhaust system for engines w/mufflers. Pipe with fire retardant resin reinforcement.
11. HYNAUTIC K-8 Grade power steering system.
12. Custom steering wheels for both helms.
13. Stainless steel emergency tiller.
14. Stainless steel rudder w/zinc plates.

F. Engine room and equipment:

1. Engine room clean design with lightweight floor, detail drawing to be provided to Customer.
2. Double sound & heat insulated material with foam & lead combination.
3. Water tight bulkhead up to entrance door.
4. Full length stainless steel overhead grab rail on each side of engine.
5. Engine room AC florescent light x 6 and DC dome light x 6.



6. Two AC blowers w/Adjustable Control.
7. Two DC blowers, exhaust ventilation.
8. Engine room ventilation intake openings w/ Delta-T Moisture Eliminators.
9. Engine load distributed through flexible mountings on S/S engine bed bonded to FRP Hull Girder.
10. Heavy-duty watertight engine room door.
11. Air Compressor 1.5HP.
12. Nutone Vacuum cleaner system w/outlets through vessel.
13. Hydraulic 16" variable speed bow thrusters ABT 55 HP.(Optional :stern thrusters ABT 55 HP)

G. Electrical systems:

General Description

1. Colour-coded wiring for easy identification.
2. Main electric panel w/circuit breakers inside the engine room.
3. Distribution Panels for each cabin areas.
4. Emergency Power Package & Lighting system.
5. AC volt duplex receptacles located throughout including engine room.
6. GFI protection for all AC outlets.
7. Indirect lighting under valance in saloon, staterooms, pilothouse and galley.
8. Independent 24 volt to 12 volt converters for necessary equipment.
9. Electrolysis bonding & grounding system.
10. Two zinc anodes on transom.
11. VIMAR outlet & switch w/dimmer.

AC/DC Main Power System

1. Two "Onan" generator 40kw (50Hz/60 Hz) w/sound shield.
2. Ten 200 AH gel cell batteries for ship's service power.
3. Separate 200AH*4 starting battery with battery chargers for main engines.
4. Separate 120AH*2 starting battery with battery chargers for generators.
5. Emergency Battery Bank 200AH*4 above main deck w/independent 50amp battery charger.
6. All batteries enclosed with boxes and cover.
7. GUEST battery switch (vapour proof).
8. Two Inverter Chargers.
9. 2 extra Engine driven 120amp alternators (P&S).

Shore Power System

1. Two Glendenning 100amp shore power Cable masters with 100' power cable.
2. Shore power connection w/ Charles Iso-Boost isolation transformer & A-B Switch.



H. Mechanical systems:

General Description

1. Hiflex or Manuli Classification Certificate pipes applied through boat.
2. Colour coded piping system for easy identification.

Fuel oil system

1. Aluminium H5083 Marine Grade Fuel Tank 4,200Gal w/Magnetism sight level gage & Head Hunter Electrical level gauge & alarm or equivalent.
2. Emergency Shut-off Valve w/remote control in Pilot House.
3. ISO Grade Fuel Hose through entire system.
4. Dual RACOR 79/1000MA fuel filters/water separator, each engine.
5. 2 RACOR 500 MA fuel filter on each generator.
6. Vetus fuel inlet "Splash Capture" *2 for P&S fuel fills.
7. One DC Fuel Transfer pump and one manual hand pump.
8. Fuel cooler system for return fuel.
9. Oil change "heavy duty" pump system for engines & generators.

Fresh water system

1. FRP water tanks in 1,000Gal w/Head Hunter Level Gauge or equivalent.
2. Ki-Tec Marine grade pipe lines for Cold & Hot fresh water lines.
3. Three Torrid 30-gallon water heaters w/circulation pump system.
4. High-volume AC fresh water pressure pump and one DC pump for back up.
5. SEARECOVERY water maker 1400 gal/day w/fresh flush function & remote control panel.
6. Fresh-water outlet & hose for filling engine and generator expansion tank.

Air conditioning system

1. Marine Air Chill Water central A/C compressor units 10ton 2 stage *2 units up to 288,000 BTU. W/ soft start & reverse heat function.
2. Marine Air, air handler units with individual controller through boat.

Sanitary system

1. 150 gallon Holding Tank*2 w/macerator pumps.
2. 100 gallon Sump Tank*1 w/sump pump & Sea-Land Tank watch.
3. "Y" valve for holding tanks dockside pump out.
4. Collecting Sump w/auto switch pumps for each showers & washer drainage.
5. TECMA toilet system or equivalent.

Bilge water system

1. Electric RULE bilge pump w/floating switch & high level alarm in each water tight compartment.



2. Bilge Blower *3 Air circulation for bilges.
3. Two manual bilge pumps in engine room and forward cabin.

Fire safety system

1. International Classification standard fixed fire extinguisher system in engine room & remote control in pilot house.
2. "Optec" Automatic Sprinkler system in Galley & Crew's Kitchen.
3. Fire dampers for engine vents.
4. Emergency stop Button for engines, generators & all blowers on wheel house.
5. Hand held Fire extinguisher as required.
6. Life Raft Bracket per customer's need. (SBO Life Raft)

I. Interior design and equipments:

General Interior Description

1. Shipyard selection wood of interior.
2. Shipyard selection of carpet(Local supply).
3. High-quality Italian entrance door lock and cabinet door locks.
4. Italian halogen ceiling lighting both direct and indirect.
5. High density, hotel grade soft foam mattress Custom choice of fabric for bed sheet, covers & cushions.
6. Indirect lighting system under sofas, beds, valances & all stairways.
7. Master V.I.P. and one Guest cabin, w/ en-suite head & shower.
8. Head board for all berths with fabric or mirror per customer's choice.
9. "Yacht Flex" air circulation system for all beds.
10. Hanging lockers in all staterooms w/necessary shelf or drawers.
11. All lockers & drawers w/push button locking hardware.
12. Doorway on aft interior stairwell.
13. Wood or Acrylic curved hand rails through boat.

Heads & Showers General

1. 4 heads & showers plus saloon day toilets, per GA design.
2. Seamless polyurethane finish in all heads.
3. "Grohe" or equivalent faucet, towel bars, tower rings, cup/brush/soap holders, head brush, for all heads.
4. Exhaust blower for each head.
5. Inlaid "HCG" sink with curve wood face on vanity cabinet.
6. Marble counter top and back splash in all heads.
7. Marble floors in all heads.
8. Jacuzzi in master room, per GA design.

Salon



1. Storage & TV cabinets in accordance to arrangement plan w/blower venting.
2. Wood counter top w/ custom design trim.
3. Custom Ceiling w/ triple wood trim style.
4. Custom Ceiling style above coffee table w/ mirror per owner's design.
5. 2 Large decoration pillars on saloon counter correspond with side pillars, all with wood trim deco edge on both ends.
6. Coffee table per owner's special design.
7. Sofa & Cushion shape per owner's w/ SBO fabric.
8. Day toilet accessed per GA design.

Dinette & Bar

1. Ceiling style above dinette per owner's requirement.
2. Storage cabinets around in accordance to arrangement plan.
3. Wood dinette table w/customer designed trim edge.(SBO Dining chairs)
4. Wood floors.
5. Dinette island bar style per owner's design with granite counter top.
6. Blanco Circular S/S sink w/ cold & hot tap & drinking water filter.
7. Side locker w/glass holder.
8. Cherry wood bar foot rest w/ S/S supporter.

Open Country Kitchen area

1. Granite galley counter top.
2. Cabinets & over head locker pre owner's arrangement & design.
3. Foot rest around bar.
9. 6 round loose stools in leather for galley counter.
10. Drinking water w/filter.
11. U-shape settee in leather pre GA layout w/two tables. Storage space behind & deep drawers under.

FWD. VIP Room

1. King size bed.
2. Open book shelf & hanging locker on both sides.
3. Automatic light sensor at entrance.

Guest Room

1. King size bed (76"*80").
2. Open book shelf beside bed head wall w/ well lighted.

Master Room

1. Bed size to be 80"*76" Atlantic king size.
2. Smoke mirror over bed ceiling.



3. Dressing room: full size wall mirror, shoe locker, owner's safe & drawers.
4. TV cabinet w/wood sliding door.

Crew quarter & aft cabins

1. Pull out table under efficiency counter top.
2. Efficiency galley with cook top & large S/S sink mounted under granite counter.
3. S/S working counter top & tool drawers under.
4. Captain's room
 - (1) Double bed size 60"*80" w/drawers under.
 - (2) Full height hanging locker.
 - (3) Storage lockers on bed end area.

5. Crew's Cabin

- (1) Twin stacked berths.
- (2) Full height Hanging locker w/ counter in front.
- (3) Deep drawers under lower berth.

Home appliances

Main galley

1. Trash compactor.
2. Instant hot water supply unit.
3. Garbage Disposal.
4. Sub Zero Full Size Galley refrigerator.
5. GE GAS cook top & convection oven, w/vent hood above.
6. GE microwave, left hand side opening.
7. GE Dish washer.
8. Sub-Zero drawer type Freezer under bar w/wood door face.
9. Blanco S/S large size single sink.

Saloon bar

1. U-Line wine cooler under.
2. U-line Icemaker under.

Crew galley

1. Trash compactor.
2. GE freezer & refrigerator.
3. GE cook top.
4. GE Washer and dryer.
5. Crew cabin microwave mounted over the counter.



6. Freezer & refrigerator under counter w/beechn door panel.

Telephone and Stereo System

1. TV cabinet in all staterooms, saloon High-Low TV system.
2. 42" Plasma TV with separate DVD player in saloon.
3. 32" Plasma TV with separate DVD player in skylounge.
4. 19" TV with DC12V DVD car stereo for each cabin. Max. 5.
5. PANASONIC PBX Telephone with intercom feature, w/outlets in salon, pilothouse, master stateroom, VIP stateroom.
6. Car stereo with two speakers in flybridge.
7. Exterior connector for shore phone and cable TV.
8. Ventilation for stereo systems.

****All specifications subject to change without notice****

The end

Qualifications and Notice to Reader

Performance statistics, weight, draft, freeboard and height are estimated only and are not warranted, and actual figures will vary depending on tolerances achieved during the vessel's construction process and the equipment, supplies and stores on board, as well as operational and sea conditions. Horizon reserves the right to substitute equipment and materials stated herein to others which it believes to be of equal or superior quality and to make such design and dimensional changes as it believes are necessary to improve the vessel's performance and function.