

COASTAL BOATS

Specification for 16M Tennant design ferry

Ref: Spec/Ferry52/base

LOA 16M
BEAM 5.78M
DRAFT 1.05M
DISPLACEMENT 13,360 KG
TOP SPEED 25 knots
CRUISING SPEED 20 knots
PAX 60 max.

Design & Construction to USCG Small Passenger Vessel Standard.

Structural

Quantities

Hull, solid GRP bottom, Topsides and Structural bulkheads GRP/Navicel PVC foam core 80 – 100kgms/m2.
Vinylester resin to outer layers, isophthalic resin inner.
Cabin GRP/Navicel PVC foam core 80 – 100kgms/m2
Internal and non-structural construction in GRP/PPC honeycomb
Watertight compartments 4
Foam filled watertight crash area in forepeak 2
Propeller Shaft Stern Tube 2
Rudder Shaft Tube 2
Thru hulls for S/W cooling and ancillary services 6
Overboard discharges 6

Hull Finishing

Primer- epoxy high build surfacing primer, 2 coats 2
Fairing Compound 1
Paint- 2 part polyurethane, Chugoku, 2 coats 3
Antifouling paint 2 coats 2
Non-skid Deck 3

Tanks, Piping & Pumps

Fresh Water Tanks - Fiberglass 200 Liters port side 1
Diesel Fuel Tanks – 700 Litres each – GRP, vinyl ester 2
Senders on Fuel Tanks 2
Diesel Fuel Header Manifold 2
Diesel Fuel Piping
Fresh water piping and fittings- HEP20 or Speedfit
Shore Water Supply Fitting 1
Salt Water piping
Through hull fittings - Bronze 6

Seacock Valves - Bronze	6
Sea Strainers	3
Check Valves	6
Tank Vents	3
Hydraulic Steering Lines/helm pump SeaFirst H/D	1
Bilge Pumping- Manual Amazon	2
Bilge pumps – automatic, Jabsco 3000 GPH	4
Fresh water Pressure Pump, Aquafax 38LPM or similar	1
Waste Piping, low odor	
Manual pump for waste pumpout w/3 way valve for o/board discharge	
Black water tank, H/D plastic 120L	1
Mechanical	
Engines, 250HP	2
Marine Gear	2
Propeller- 4 blade -Bronze, Nibral	2
Propeller Shaft Coupling	2
Propeller Shaft - 316L or similar standard SAE Taper	2
Cutlass Bearings, Johnson	4
Dripless Shaft Seal, Duramax or Deep Sea	2
Rudder- per plan	2
Rudder Stock- S/S 316L	2
Rudder Stock Packing Box	2
Rudder Bearing/Upper	2
Rudder Bearing/Lower	2
Twin Racor fuel filter	2 sets
Main Engine Exhaust Pipe	2
Engine Room Ventilation Blowers	2
Main Engine Muffler- Centek or Halyard	2
Hydraulic Steering System, Sea First H/Duty	4
Engine Room Ventilation Ducts	2
Engine Room Soundproofing	
Electrical	
140 amp alternator supplied with engine	2
Service batteries, 8D	3
Engine start battery, 120 ampere hour	2
Battery Boxes with Covers for all battery sets	3
Battery isolator/VSR	1
Battery Switches	2
Electrical Wiring – Marine Grade- color coded per USCG	
Electrical Panel 12VDC	1
Battery monitoring panel	1
Bilge pump control panel	1
Lighting System Wiring 12 VDC	1
Nav lights LED, Hella	4

Anchor Light LED	1
Instrumentation lighting LED	2
Engine Room Lighting flourescent	2
Interior lighting LED warm white	10
Cockpit lighting LED w/proof	2
Courtesy/ Walkway lighting lights LED, blue	10
Manually controlled halogen search lights	2
Sockets 12 VDC- Helm station and cockpit	2
PVC Conduit for all power wiring	1
Main Deck Equipment	
Forward facing seating for 70pax	
Electric Windlass/Capstan, Lewmar V3 with foot switches	1
Front windows – marine grade, 10mm, clear toughened glass.	
Side window - 6mm, tinted toughened glass.	
Rear window - 6mm, tinted toughened glass	
Windscreen wipers/washers, H/D	2
SS guardrails per design	
Waterproof hatch for Chain Locker	1
Bow Roller, Anchor 16 kg Delta, chain 3/8” High Test, rope 3/4”	1
Stern lockers	2
Stowage hatch forward for fenders and mooring lines.	1
Overhead or under seat stowage for life jackets.	
Cleats, SS - 2 x foredeck 10”, 6 x side 10”	8
Deck Filler Fresh Water- Port & Starboard	2
Deck Filler Diesel Fuel- Port & Starboard	2
Port and starboard boarding points with SS guard rails	
Helm Station/Bridge Equipment	
Engine instrument panels	1
SS destroyer type steering wheel	
Magnetic compass	1
Diesel tank Gauges	2
Fresh Water tank gauges	1
Pilot’s Seat	1
Crew Seat	1
Gear Lockers	1
12 Volt Horn	1
Interior Finish	
Nidacore PVC honeycomb subfloors	
Paint finish for Walls	
Cork or vinyl Flooring	
Ceiling Material- GRP finish panels	

Heads

Compartment equipped with an electric flush toilet and wash basin
one each side situated aft . 2

Safety Equipment

Lifebuoy, SOLAS 6
First aid kit 1
SOLAS approved life jacket 63
Fire extinguishers 4ltr foam 3
2.5 kg CO2 2
FireBoy automatic smothering cylinder in engine room 2

