

68M LANDING CRAFT

Technical Specification — Anonymized Reference Document

GENERAL

Basic Function	1X	Transporting cargo
Classification	1X	Class BV
Descriptive Note	1X	Specialized designed to transport and deliver cargo

DIMENSIONS

Length O.A.	1X	68.00 m
Breadth Mld.	1X	16.00 m
Depth Mld.	1X	4.50 m
Design Draft	1X	3.594 m

PERFORMANCE

Free Running Speed	1X	Est. 11 knots
--------------------	----	---------------

TANK CAPACITY

Fuel Oil	1X	Approx. 340 m3
Long Range FO	1X	Approx. 1,106 m3
Fresh Water	1X	Approx. 183 m3
Ballast Water	1X	Approx. 561 m3

PROPULSION SYSTEM

Main Engine	2X	Yanmar, 6EY17W, 1138ps @ 1450rpm, heat exchanger cooled, electric start
Gear Box	2X	Reintjes, WAF563, ratio 5.05:1
Rudder	2X	Mentrade (material), mild steel type
Steering Gear System	1X	Palmarine or equal, PEH3002-2P, electro-hydraulic, 2 x 3.0T-mile bar steering gear at 35° steering angle, 1 unit dual pump electro HPU, emergency hand hydraulic steering in wheelhouse, joystick steering levers on forward wheelhouse control console
Stern Tube Seal	2X	Water lubricated
Stern Tube Bearing	2X	BTC Cuttless bearing
Rudder Stock Seal	2X	Water lubricated
Fixed Pitch Propeller	2X	Mentrade or equal, 4-blade manganese bronze, in nozzle
Bow Thruster	1X	Kamome, TFA-50DHN, 5T
Thruster Prime Mover	1X	Yanmar, 6HYM-WET, 500ps c/w Twin Disc gearbox MG 5082 SC (ratio 1.53:1)

AUXILIARY MACHINERY

Main Generator	2X	CAT, C7.1, 150ekW @ 1500 RPM, heat exchanger cooled, electric start
Emergency Generator Set	1X	Cummins, 6BT5.9-GM83 or equal, 58kW alternator @ 1500rpm

PUMP EQUIPMENT

Bilge & Ballast Pump	1X	45 m3/hr x 40m
GS / Fire Pump	1X	45 m3/hr x 40m
Emergency Bilge Pump	1X	40 m3/hr x 30m
Emergency Fire Pump	1X	40 m3/hr x 40m
Black Water Pump	1X	15 m3/hr x 20m
Fuel Oil Transfer Pump	1X	9 m3/hr x 25m gear pump
Long Range Fuel Oil Pump	1X	80 m3/hr x 50m
Fresh Water Cargo Pump	1X	50 m3/hr x 50m
Fresh Water Transfer Pump	1X	50 m3/hr x 50m
FW & SW Pressure Set	2X	5 m3/hr x 32m c/w 100L tank
FW/SW Standby Set	1X	5 m3/hr x 32m
Sewage / Grey Water Discharge Pump	1X	15 m3/hr x 20m
Dirty Oil Pump	1X	5 m3/hr x 20m gear pump
AC SW Cooling Pump	1X	45 m3/hr x 30m
SW Cooling Standby Pump	1X	45 m3/hr x 30m
ECR AC Cooling Pump	1X	25 m3/hr x 25m
Wheelhouse AC Cooling Pump	1X	25 m3/hr x 25m
Prov./Refig. Cooling Pump (chiller freezer)	1X	25 m3/hr x 20m

HVAC & AUXILIARY SYSTEMS

AC Condenser Unit	1X	Marine central air conditioned
Ventilation Fans	1X	—
Oily Bilge Water Separator	1X	0.5 m3/hr @ 15ppm, electronic type
Sewage Treatment Plant	1X	For 14 persons
Ballast Water Management System	1X	Non-Ex, partly skid mounted, flow rate 5–85 m3/hr
Provision Refrigerating Condenser Unit	1X	Semi-hermetic compressor & sea water cooled condenser
Hot Water Calorifier	1X	—
Electric Cooking Range	1X	4 square hot plate c/w oven
Food Waste Disposer	1X	—
Service Air Compressor	1X	Capacity 750 L/min

DECK EQUIPMENT

Anchor & Chain	1X	2x stockless anchor 2,150kg, 14 x Ø30mm grade 2 stud link anchor chain
Hydraulic Ramp & Anchor Winch	1X	Electro-hydraulic, 8T @ 15m/min c/w 1 gypsy, wire reels & warping drums
Hydraulic Vertical Capstan (Aft)	1X	Electro-hydraulic, 3T @ 10m/min

ACCOMMODATION

Berths – 1-Man Room	4	—
Berths – 2-Man Room	5	—
Total Berths	14 men	—

NAVIGATION & COMMUNICATION EQUIPMENT

GMDSS Area A3 Radio Console	1X	—
Inmarsat-C	1X	LRIT compliant
Inmarsat-C (SSAS)	1X	—
GMDSS MF/HF Radiotelephone	1X	—
GMDSS VHF / DSC Transceiver	1X	—
PA / Talkback System	1X	Public address (PA) system
EPIRB	1X	—
Automatic Identification System	1X	Class A
Search & Rescue Radar Transponders	2X	—
Primary Radar	1X	64 NM
Secondary Radar	1X	48 NM
Echo Sounder	1X	—
Speedlog	1X	—
Gyrocompass	1X	—
GPS Navigator	1X	—
Navtex Receiver	1X	—
GMDSS VHF Portable Radio	3X	—
Autopilot System	1X	—
Bridge Navigation Watch Alarm System	1X	—
Magnetic Compass	1X	Reflector compass
Intercom System	1X	—
Soundpower Telephone	1X	Batteryless telephone system

WHEELHOUSE EQUIPMENT

Main Engine Control	1X	Electronic type control for main engine & bow thruster engine
Twin Engine Telegraph	1X	Light and sound type, 24VDC
Propeller Shaft	2X	Stainless steel 316
Search Light	1X	Remote control, 2000W

Flood Light	8X	400W halogen type
Navigation Lights	1X	—
Main Switchboard & Distribution Board	1X	—
Electric Air Horn	1X	—
Wind Speed & Direction System (Anemometer)	1X	—
TV Antenna	1X	—
Clear View Screen	1X	300mm, 24VDC
Window Wipers	2X	Straight-line type

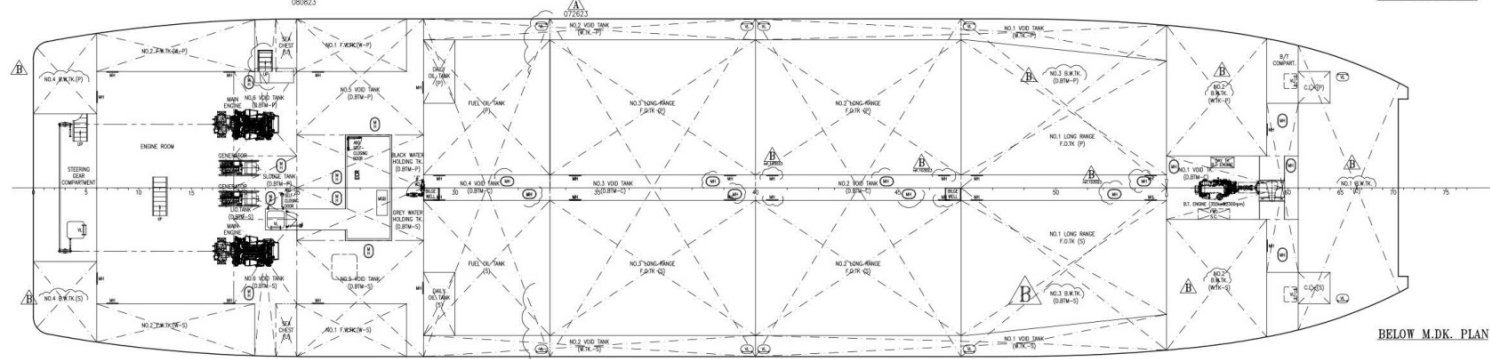
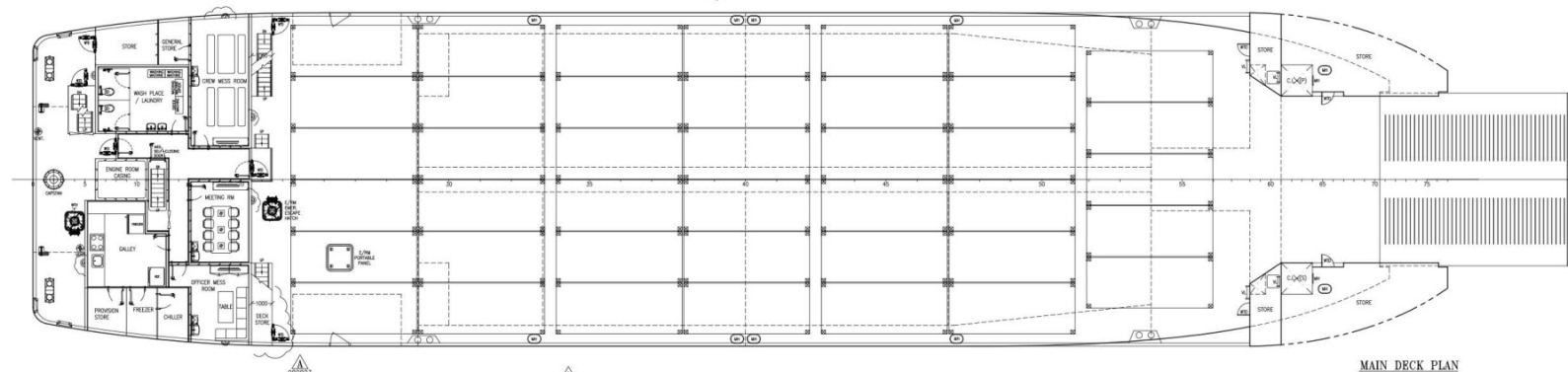
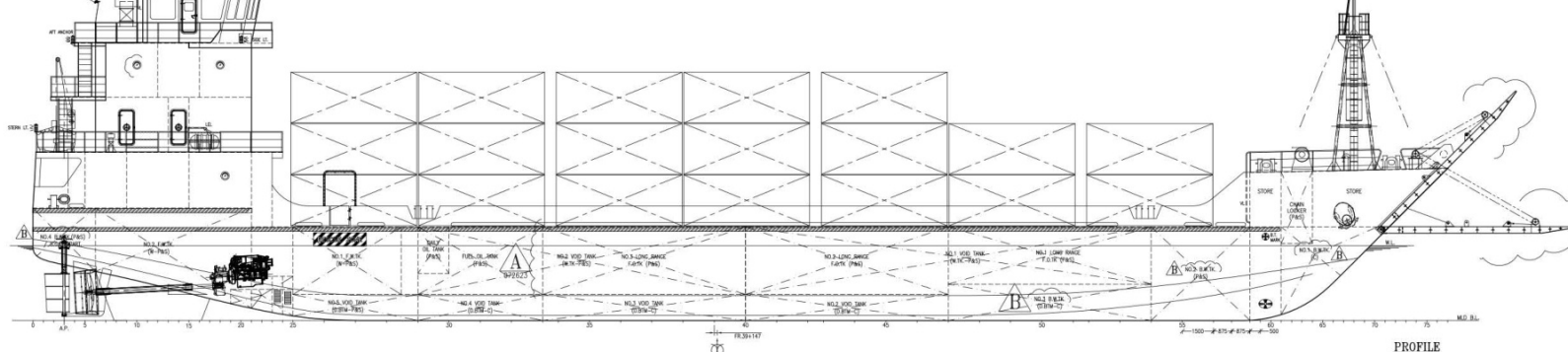
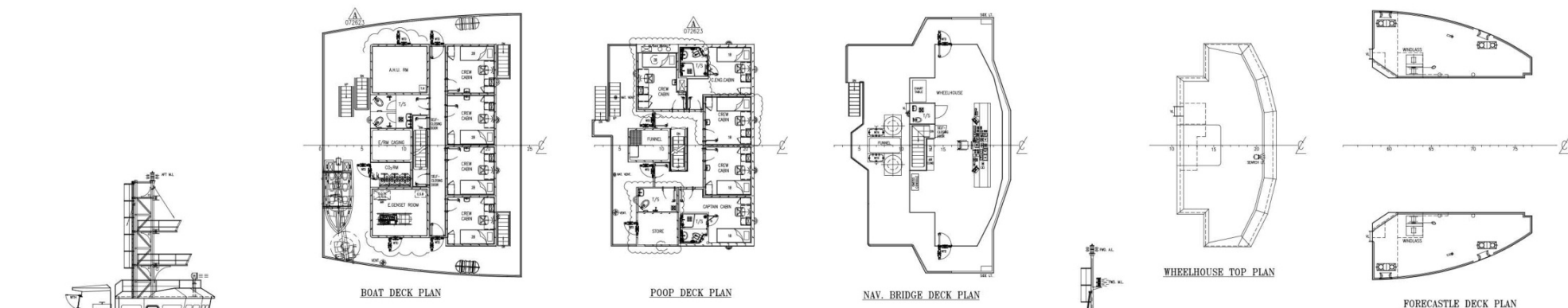
FIRE FIGHTING & LIFE SAFETY EQUIPMENT

CO2 Fire Fighting System	1X	Fixed bottle in CO2 room for E/R & B/T compartment, capacity per Class
Fireman Outfit	2X	SOLAS standard
Portable Fire Extinguisher	18X	As per Safety Plan
Fire Detection / Alarm System	1X	Class approved
Firemain System	13X	Fire hydrants and hose per specification
Inflatable Rafts	2X	SOLAS standard, 25-man
Life Buoys	11X	SOLAS standard
Life Jackets	18X	SOLAS standard
Line Throwing Apparatus	1X	SOLAS standard, 4 projectiles & line
Parachute Distress Rocket	12X	SOLAS standard
First Aid Kit	2X	—
Man Overboard Smoke / Light Fittings	2X	SOLAS standard
Emergency Escape Breathing Devices	8X	SOLAS standard
Rescue Boat & Davit Crane	1X	4.5m x 1.86m x 0.86m F.R.P, capacity 6 persons, c/w 40hp outboard engine, SWL 21kN
Manhole	1X	Mild steel c/w stainless steel bolts & nuts

DOMESTIC EQUIPMENT

Washing Machine	1X	Capacity 10kg
Spin Dryer	1X	Capacity 6.5kg





PRINCIPAL PARTICULAR

L.O.A.	68.000M (223.10FT)
L.W.L.	64.294M (210.94FT)
L.B.P.	62.794M (206.02FT)
BREADTH MOULDED	16.000M (52.49FT)
DEPTH MOULDED	4.500M (14.76FT)
DESIGN DRAFT	3.594M (11.79FT)
DESIGN SPEED	11 KNOTS
COMPLEMENT	14 MEN
F.O.T.K. CAPACITY	245 CU.M (Perm.=0.98)
LONG RANGE FUEL OIL TK. CAPACITY	1106 CU.M (Perm.=0.98)
F.W.T.K. CAPACITY	183 CU.M (Perm.=0.98)
B.W.T.K. CAPACITY	561 CU.M (Perm.=0.98)
MAIN ENGINE	YANMAR 6EY17W
	1138PS@1450RPM x 2 UNITS
GEAR BOX	RATIO 4.07 : 1
GENERATOR	150KW x 2 UNITS, 58KW x 1 UNIT.
PORT OF REGISTRY	SINGAPORE
FLAG	SINGAPORE
NAVIGATION AREA	UNRESTRICTED

NOTES:-

- "A" to be kept closed at the sea and a permanent notice to this effect shall be posted on either side of the door.
- "B" to be kept closed at sea and separate indicator lights and audible alarm are to be provided on the navigation bridge and on the operating panel to show that this door is closed and that its securing and locking devices are properly positioned. Notice to be affixed on both sides of the door: "TO BE KEPT CLOSED AT SEA".
- Side scuttles are to be fitted with efficient, hinged inside deadlights.
- For container arrangement please refer to separate drawing.
- Minimum bow height and reserve buoyancy is to be in accordance with ILL 66 (as modified 1988 and 2003), REGULATION 30; alternatively, the specific instruction from the flag is to be obtained and complied.
- Please refer to fire protection plan for type of self-closing fire door & fire door, and fire integrity of bulkheads and deck.

WTD = WEATHER TIGHT DOOR
 WTH = WEATHER TIGHT HATCH
 WT = WATER TIGHT DOOR

DRAWING TYPE

GENERAL ARRANGEMENT

VESSEL TYPE

68M LANDING CRAFT

CLASSIFICATION

BV

STATUS

FOR REFERENCE ONLY

DOCUMENT

ANONYMIZED