



OUTLINE SPECIFICATION

ACCOMMODATION UNIT

BIBBY PROGRESS

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Outline Specification Bibby Progress

1. General

The following specification describes generally the arrangement, equipment and facilities on the Bibby Progress.

While every effort has been made to ensure that all the information is correct it is without guarantee.

1.1 Outline Arrangement

The accommodation consists of 4 decks with public and private rooms. The public rooms are located on the ground floor and the private bedrooms are located on deck 1,2 & 3.

1.2 Principal dimensions and capacities

Length overall: including accommodation	91.4m
Width	27.4m
Depth	6.1m
Bottom of keel to highest point	22.5m
Working draft	2.2m
Gross Tonnage	12611 tons
Net Tonnage	4030 tons
IMO Number	8639936

1.3 Classification, Rules and Regulations

The unit is classed by Lloyds Register	+ 1A1 RE Pontoon
Port of Registry	Bridgetown, Barbados
Building Code	SOLAS 1974 / 83

Convention for preventing Pollution from Ship 1971

2. Accommodation

2.1 Outline

- Sleeping accommodation 151 en-suite rooms and 8 rooms with shared bathrooms
- Restaurant
- Commercial Kitchen / Galley
- Gym
- Bar & Lounge
- Locker / Changing Room
- Main Laundry and Linen Stores
- Two Guest Laundries

2.2 Accommodation description and equipment

The accommodation is designed with an excess capacity of public spaces in restaurant, galley etc. to cater for the extra number of guests involved in a possible extension as previously described. Also, all services (electrical power, air conditioning) are designed to accommodate an additional floor.

Main Restaurant

Seating for up to 250 persons. Total area 375m².

Bar

- 118 m² leading off from lobby.

Equipment installed in the Bar

Qty.	Equipment	Maker	Model
1	Ice Cube Maker 10kg	Icematic	N25L
1	Bottle Fridge	True	GDM49

Galley / Scullery

Fully equipped with modern marine galley equipment for rational food preparation and cooking for the accommodated guests. Capacity for 500 persons / hour.
Area 160 m².

Equipment installed in galley / restaurant

Qty.	Equipment
7	Upright Fridges
1	Mixer
4	Twin Tank Deep Fat Fryer
3	4 plates Range Hob c/w Oven under
2	Boiling Pan/ Tilted Kettle 40 Litres each
2	Convection Oven (Twin stack on)
2	Combi-Oven (10 G/N pan)
3	Bratt Pan (Auto Tilting)
2	Counter Fridge
4	Mobile Ban Marie (6x G/N Pan)
2	Pass through Dishwasher
1	Potato Peeler
2	Ice Cube Maker 10kg
1	Coffee Machine
1	Flat Top Grill
1	Conveyor Dishwasher
1	Ice Cream Freezer
1	Drink Fridge
1	Refrigerated Salad Counter

Provision Storerooms

1 x	Freezer	40 m3
3 x	Fridges	Total volume 63 m3
1 x	Dry provision stores	Total volume 96 m3

All Fridges, freezer and dry stores are fitted with stainless steel shelving.

Main Laundry

The main laundry is location on deck 1 with the following equipment installed

4 x T4190 Dryers
4 x W475N Washers

Guest Laundries

Space for guest laundries are provided on deck 2 and 3 with Electrolux washers and dryers installed.

2 x T4190 Dryers

2 x W475N Washers

Linen Stores

Linen stores are provided on each floor, fitted floor to ceiling with shelves.

Cleaning Gear Lockers

These are provided at suitable locations on every level of accommodation. A stainless steel bench with sink for hot and cold water is installed in each.

Public Toilets

Male and female located in the lobby on ground floor. 30 m2 total area.

Male and female staff toilets located in working alleyway adjacent to the galley

Lifts

Two lifts designed for 6 persons each, are installed adjacent to main staircase / reception. A certified service lift is located aft.

Staircase

A-60 enclosed in accordance with fire and safety regulations. Two fully enclosed emergency staircases serve all decks at either end of accommodation block.

Entrance lobby

A large lobby of about 500 m2, incorporating a spacious lounge and a central staircase / lift area serving all floors.

Bed / Living accommodation

- 151 Guest Bedrooms with a Single Australian extra-long bed / mattress with underneath storage and one or two bunk beds
- 8 Single rooms, with a shared bathorrom between 2 rooms
- Writing desk with pedestal drawers
- wardrobes / lockers for each guest
- Vanity Chair
- Bedside cabinet
- Double Australian electrical outlet sockets located around the room.
- TV aerial socket
- Wall mirror
- Window black out blinds
- Window Curtains

En-suite toilet facilities comprising of

- Wash basin with mixer tap
- Shower with mixer
- Mirrored wall cabinet
- Gravity flushing W.C.
- Twin towel rails
- Wall exhaust fan
- Shower rail and curtain
- Toilet roll holder
- Twin soap dishes at the sink
- Twin coat hooks

Public Areas / Recreation Rooms

The reception area is located at the centre of the barge which can be accessed from the main entrance on the Ground Floor

The following facilities are available

- Reception desk with telephone exchange and internet connection points.
- Double Australian two pin electrical outlet sockets
- PA System
- Communications / Server rooms and office directly behind the reception desk. And CCTV Monitors

Locker / Changing Room

Adjacent to the main entrance, there is a Locker / Changing Room which allows guests to remove their working boots and leave them here rather than having to take them into their bedroom.

Gym

The gym is located on deck 1 – approximate area 240 M2

The following Technogym equipment is available

Cardiovascular

- 2 x Technogym JOG NOW 500 LED
- 1 x Technogym Top 700 LED
- 2 x Technogym Recline 500 LED
- 2 x Technogym Bike 500 LED
- 3 x Technogym Excite+JOG
- 2 x Technogym Excite+Vario

Rowing Machines

3 x Concept 2 Rower `E` Model

Strength

1 x Technogym Element + Shoulder Press
1 x Technogym Element + Chest Press
1 x Technogym Element + Leg Extension
1 x Technogym Element + Leg Curl

Free Weights

1 x Technogym Element + Horizontal Bench
1 x Technogym Olympic Bar Chrome plated 50cm x 2000mm
1 x Technogym Urethane – encased disk set
1 x Technogym Element + Disk rack
1 x Technogym Element + 4 Uses bench (Adjustable)
1 x Technogym Kit Urethane – encased Dumbbells sets 4-26kg
1 x Technogym Urethane - encased Dumbbell Rack

Miscellaneous Equipment

Pool Table
Fussball Table
Table Tennis Table
Air Hockey Table

Lounge Areas / Quiet Areas

Throughout the ground floor the space can be used as TV lounges or reading areas. The equipment that is supplied for these areas are as follows:

- 36 x Sofa Chairs
- 6 x Coffee tables.

Through the coastel, carpet has been installed in all public areas, excluding the gym, luggage locker and one multi-purpose room.

Two projectors and large screens are fitted, one in the Bar Lounge and one in the Multi-purpose room that can be utilised for presentations / inductions or even cinema nights (padded / foldable chairs are available onboard to facilitate)

2.3. Accommodation Construction

The accommodation block consists of a superstructure with a total of 4 decks.

Structure

The accommodation block has been built to SOLAS 1974/83 requirements.

Windows

In each of the spaces except machinery spaces and store, windows are of aluminium framed non opening type.

Floors

All floors in the superstructure except machinery areas are properly levelled, and covered with the following:-

Galley / Scullery and Public Toilets.	Tiles / Temaro coating
Lounge	Fitted carpet
Restaurant / Bar and multi-purpose rooms	Fitted carpet
Cabins, Alleyways and Main Staircases	Fitted carpet
Laundries and Storerooms	Epoxy
Escape staircases	Vinyl

Bulkhead Panels

Insulated steel panels covered with Muraspec Double panels between cabins. Sound reduction between the rooms is 43db.

Ceiling

All spaces except machinery areas, lobby, lounge and reception have suspended ceiling panels of the same type as the bulkheads.

Restaurant, lobby, lounge and reception have suspended ceiling panels.

All piping and cables are concealed behind the panels.

3. Accommodation Systems

3.1. Ventilation and Heating / Air Conditioning

All cabins spaces above barge deck are fully air conditioned. A/C plant is automatically controlled in such a way that both cabins and public rooms are kept at the desired temperature levels. In cabins and small rooms, air is distributed via air supply units. In all public spaces air is supplied through slots in the suspended ceiling.

Galley and public spaces are served by two speed fans.

In addition, the engine control room has its own a/c unit. All machinery spaces have mechanical ventilation,

Design Conditions	Summer:	+35 °C 70% relative humidity
	Winter:	-20°C

The above system can be upgraded to a more rigorous specification subject to agreement.

3.2 Sewage System

The SludgeHammer MS-700 treatment system can be best described as a “Microbiologically Enhanced Extended Air Secondary Treatment System” based on both suspended bacterial growth and fixed film treatment.

The Sludgehammer system collects and treats all wastewater from the vessel including showers, laundry, kitchen and toilets.

Both grey and black water are combined and as such the concentration of influent load is lower than most shipboard systems which treat black water only. Marpol requires testing with loads of a minimum of 500mg / l Total Suspended Solids, even though the load for the Sludgehammer system is typically 250mg / l or less.

Prior to discharge this effluent is then pumped through an ultraviolet disinfection system to reduce pathogens by another factor of at least 100 times to meet the Marpol limits of less than 100 colony forming units per 100 ml. Designed Maximum Hydraulic Loading is 172m³/day and Designed Maximum Organic Loading 43.0 kg / day (BOD).

Effluent is odour free, colour free, low in solids and faecal bacteria are well under most national standards for body contact,

3.3 Fire detection and Alarm System

Accommodation is equipped with fire alarm system of a new analogue design. Each detector can be individually identified. Both optical and ionisation detectors are used in order to detect any type of fire as soon as possible. Alarm sirens as well as manual alarm points are provided throughout the unit. The control panel is located at reception, sub-panels are fitted in crew cabins and engine control room.

3.4 Public Address System

Installed public address system conforms to established P.A. system operating standards and exhibits a linear frequency response. Main amplifiers and control equipment are located adjacent to the reception.

3.5 Fresh Water System

A Trustwater Electro-Chemical Activation (ECA) water treatment plant is installed onboard.

Trustwater Ecasol systems are the most effective technology available to eliminate bacteria (Legionella), viruses, fungi, spores, protozoa and stubborn biofilm.

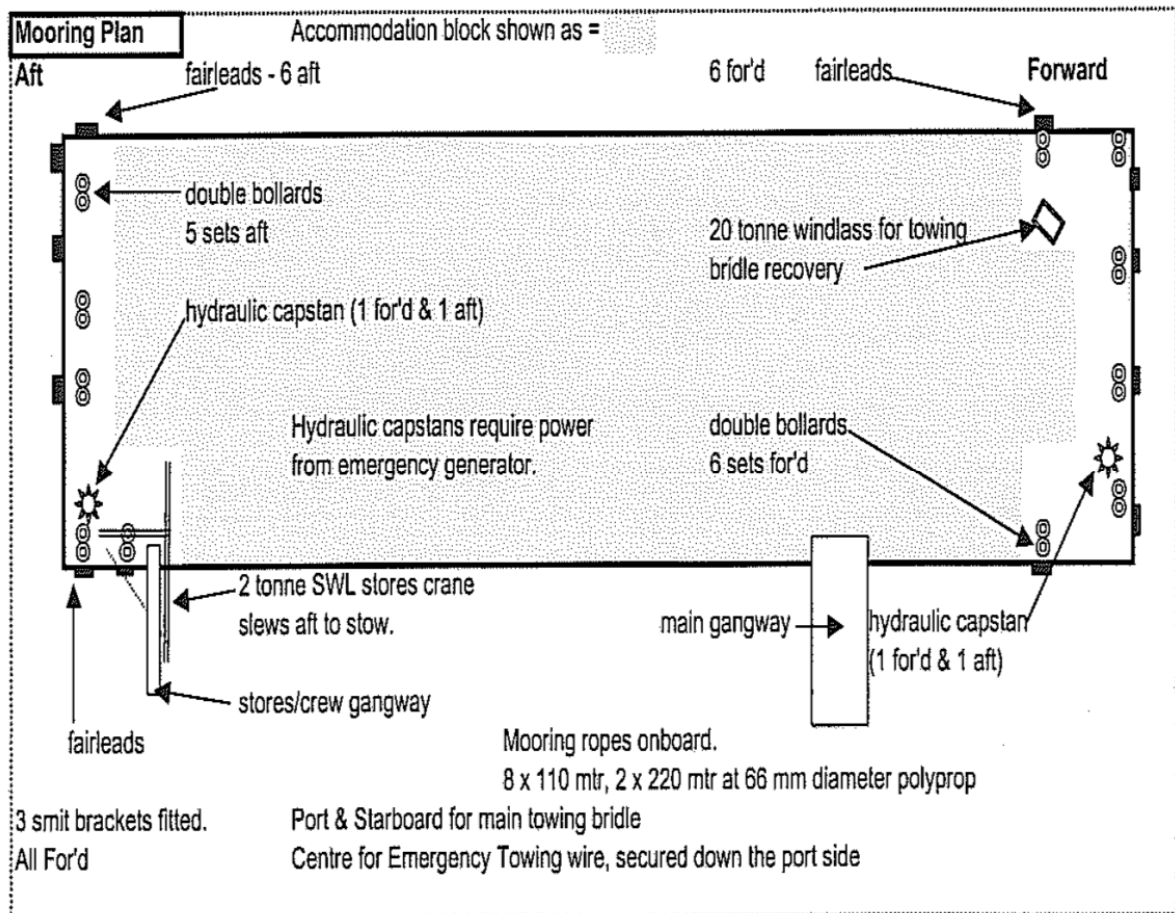
Ecasol is a pH neutral solution that destroys all known microbes and is used in the Healthcare market to replace commonly used chemical disinfectants.

A UV steriliser is also fitted in the fresh water system.

4. Deck Equipment

4.1 Mooring Equipment

Mooring capstans are fitted, once forward and one aft, suitable for handling permanent and temporary mooring lines.



4.2 Towing Arrangements

One main and one emergency towing arrangement is installed. Twelve mooring bollards and twelve roller leads are provided for harbour towing and mooring purposes.

For towing navigation lightings are fitted there are masts / stanchions bolted to foundations and fitted on the roof.

4.3 Anchor Winch

50 ton single drum hydraulic mooring winch with local control stand complete with 90kw electro hydraulic powerpack.

Fitted with 52mm x 600m IWRC EEIPS Steel Wire Rope with a 5t High Holding Power Flipper Delta Anchor

4.4 Life Saving Equipment

Eight lifebuoys are in place around the unit for accessible use.

4.4 Fire Fighting Equipment

Fire hoses are fitted through the accommodation and machinery spaces.

A separate sprinkler system is provided for all areas onboard, except machinery spaces – the Machinery Space is protected by a CO2 Flooding System.

Fire extinguishers are located throughout the vessel and these comply with Australian Standards.

4.5 Gangways

The main gangways are fitted to the starboard side of the vessel.

Emergency gangway – aft of the vessel – (size to be confirmed)

5. Machinery Systems

5.1 Arrangement of machinery room

The pump room houses 2 ballast pumps, which are connected to all ballast tanks.

Most of the pumps, as well as heat exchangers and Trustwater system are located in the pump room.

5.2 Power Plant

The diesel engines are intended to use marine diesel/ gas oil. Total output of the four generators 1,000kw (250kw each).

Voltage 440V / 220V 60Hz 3 phase for domestic use.

Emergency / Harbour generator for lights, elevators, fire detection and fire pumps – 250kW.

1 x Containerised generator (900kW, 440V, 60Hz 3 phase).

Automatic synchronising and load sharing system is provided for all generators.

The daily service tank is served by a centrifugal purifier.

Diesel generators are installed with consideration to noise, vibration transmission and easy maintenance.

Power cables are required for the shore connection.

5.3 Power

The power requirements will be as follows:-

Normal barge load is 600kW.

5.4 Piping Systems

General

All piping system are so designed and installed to permit easy access to all machinery and adjacent piping.

Isolation valves are installed to allow for overhaul of all machinery without shutting down remaining plant.

Sea Water and Central Cooling Systems

Sea water is only used for the central coolers. All other systems are fresh water cooled.

Fire Fighting System – Accommodation

A separate alarm sprinkler flow is provided for each fire zone.

Sprinkler heads and pipework are installed in each cabin, alleyway, restaurant and reception area.

Fire Fighting System – Engine Room.

A fixed CO₂ fire extinguishing system is provided for the machinery rooms, emergency generator room and paint store, Means are provided to stop all ventilation fans servicing the protected area and shut down all generators, boilers etc, within such an area, prior to an extinguishing system release. All fuel lines to generators and boilers have remote controlled shut-off valves.

Ballast System

Two self-priming ballast pumps are installed, each 480m³ against 15m head. One pump is driven by a G.M. diesel engine of 62HP, the other by an electric motor.

Fuel Oil System

A fuel oil full capacity for Diesel fuel is provided at the shore supply connection manifolds on the Port and Starboard sides of the coastel. Fuel oil tank storage capacity is 550m³.

Two electrically driven fuel oil transfer pumps each of 15m³/h 3.5kg / cm³ capacity are provided to transfer fuel oil between the storage tanks.

A day tank with a volume of 14m³ is installed.

The shore generator fuel tank has a capacity of 6m³ and the harbour / emergency generator fuel tank has a capacity of 2.4m³

Lubricating Oil System

A Lubricating Oil tank of 2m³ is installed in the engine room.

Pipe Connections at Bunker Station

Pipe Connections	Pipe Diameter "A"	Flange Diameter "B"	No. of Holes	Hole Diameter "C"	P.C.D. "D"	Pressure	Availability
Sewage	100	225	8	18	180		Port & Stbd
Bilge	70	185	4	18	145		Port & Stbd
Fire	70	185	4	18	145		Port & Stbd
Fresh Water	65	185	4	18	145	2 bar	Port & Stbd
Fuel	100	225	8	18	180		Port & Stbd
							All at aft end

5.5 Bunker Station

Suitable piping and pumps for discharge to shore facilities of sludge and sewage are arranged. Easily accessible bunker stations for fuel oil, lub. Oil and fresh water are provided on both Starboard and Port sides aft.

In the same area as the bunker station starboard side, the electric shore connection boxes are located.

A large 35m² landing area is provided aft for receiving provisions and stores. This is also used for garbage handling.

