



0044 (0)1273 508164

0044 (0)7710 112765

info@fairwaysmarinebrokerage.co.uk

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OUTLINE SPECIFICATION

ACCOMMODATION UNIT

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1. General

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

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

1.1. Outline arrangement

The accommodation, which is set over three floors, is fitted on top of a flat top North Sea barge. The accommodation is divided into a 'H' block with cabins and public spaces on each deck. There are two light well areas, one forward one aft of the vessel.

1.2. Principal dimensions and capacities

Length overall: including accommodation	92.71m
Breadth overall including mooring collars	27.81m
Depth moulded	6.096 m
Sewage Tank	7.5 m
Gross Tonnage	10,659
Net Tonnage	3,197

1.3. Classification, rules and regulations

The Barge is classed by Lloyd's Register of shipping as 'in land waterways pontoon'.

The Accommodation has been built to the following:-
Swedish Building code for structural strength and passive Fire Protection.

2. Accommodation

2.1 Outline



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Sleeping accommodation in the form of the following:

1 st Deck	Large rooms	6 rooms
	Suites	34 rooms
	Singles	10 Rooms
2 nd Deck	Large rooms	4 rooms
	Suites	17 rooms
	Singles	22 Rooms
3 rd Deck	Large Rooms	6 rooms
	Suites	34 rooms
	Singles	12 rooms

Opposite some of the Single rooms there are shower blocks with two cubicles in each. There are two of these shower blocks on each deck

2 or 3 x Recreation rooms on each deck.

2.2 The accommodation is of modular construction manufactured by Grizzly Shipping.

Bed / Living Accommodation

- Work Top
- 2 Shelving units
- Table (Fixed to wall & floor)
- Electrical Radiators
- Double continental two pin electric outlet sockets
- T.V aerial sockets

En – suite toilet facilities comprising of

- Wash basin with single tap (cold water only)
- Shower with push button controls
- Wall mirror (above washbasin) and metal shelf
- Wall exhaust fan



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- Gravity flushing W.C
- I.P Rated light fitting with shaver socket 230v

Public Areas / Recreation Rooms

Reception Area

Lifts

- There is a goods lift which services all decks and is situated on the starboard side.

2.3 Accommodation Construction

The accommodation block is a fabricated superstructure with a total of 3 decks.

Structure: All material and construction are to the relevant Swedish Building code as previously mentioned

Windows: Wooden framed, double glazed window guides haven been installed so that the window can be open into the cabin with a tilt.

Doors: All the doors are B30 Fire rated doors with a view panel built in.

3. Accommodation Systems

3.1 Ventilation and Heating

Heating of the unit is provided by use of electric radiators 750w.

Ventilation of the unit is natural and provided by the window except the en- suite facilities which have automatic extraction.

3.2 Sewage System

A sewage collecting, holding and transfer system is installed and connected to all toilets, wash basins, sinks, scuppers etc. Black and grey water is led to a 20 tonne sewage holding tank.



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The sewage system is equipped for discharge to shore directly from the sewage tank by one or the other of the two submersible pumps contained in the tank.

The submersible pumps are interchangeable by opening and closing valves.

When the sewage reaches the high level (approximately three quarters full) the pump in active service is operated by a float level switch in the tank which pumps the sewage ashore until the low level float switch is reached when the pump stops.

If for any reason the pump fails to start there is a "Higher" level float switch, which if activated, closes a solenoid valve shutting off all fresh water to the unit. An alarm also sounds in the Bargemaster Accommodation.

3.3 Fire Detection & Alarm System

All accommodation spaces are covered with smoke and heat detectors.

Manual fire alarm push bottoms are located in the stairwells and adjacent to all external doors.

Dry sprinkler system has been installed throughout the unit.

Note: Shore side water tank is required for this system.

3.4 Public Address System

A public address system is installed located in the reception room with speakers in the corridors and public rooms.

3.5 Fresh Water System

Trustwater water treatment plant is installed onboard. Below is the description of the Disinfection System.

- Water is pumped by the Coastel and taken from the draw off point.



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- A water filter takes out any large sediment to prevent fouling of the generator.
- The filtered water is then softened and passes to the brine tank and Ecaflo generator
- The Ecaflo generator draws brine and generates fresh Ecasol that falls to a storage tank.
- Multiple level switches turn the Ecaflo generator on & off and prevent the dosing pump running dry.
- A flow meter measures the ships water and sends signals to the dosing pump that injects Ecasol into the water line.
- A free available chlorine monitoring system receives treated water from the main water line and reads the FAC content of the water. The water used for FAC monitoring is returned to the main storage tank via the return water line.
- Waste from the de-scaler / generator process is pumped to drain.

Hot water is provided throughout the barge, by the onboard boiler.

3.6 Telephone

Not fitted.

4. Deck Equipment

4.1 Mooring Equipment

Two class approved Steel mooring collars are fitted for connection to vertical steel piles.

4.2 Towing Arrangements

A Lloyds Register approved towing bridle terminating a “delta” plate is fitted at the forward end with the legs terminating on the barge at “Smitt” type towing brackets.

A Lloyds Register approved emergency towing wire is fitted to a “Smitt” type bracket on the centreline forward. This runs to the port side of the barge and down the port side in clips at the deck edge allowing the wire to be pulled free in an emergency.

4.3 Life Saving Equipment



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Life buoys are supplied at each gangway.

4.4 Fire Fighting Equipment

Fire hydrants and hoses and Dry sprinkler system are fitted throughout the accommodation as required by the Netherlands Fire Services.

4.5 Gangways

Provisions are made for the connection of three gangways.

1 for the main entrance on Deck 2
2 for access entrances to deck 1: One forward, one aft.

5. Machinery System

5.1 Arrangement of Machinery Room

5.2 Power Plant

5.3 Power

The unit can supply its own power through 3 Cummins diesel generators each developing 380 v, 192 kW, 50Hz. 3 phase and neutral transformed to 220 v for domestic use.

Note: At present there is only one generator connected.

5.4 Piping System

There are two piping systems: Fresh water and sewage.

The fresh water comes directly from ashore into the piping system using the shore pressure. There is no holding tank. Fresh water is used for washing, cooking, fire fighting and toilet flushing.

All black and grey water lines go to the sewage tank within the hull from where it is pumped via a shore connection to a sewer main ashore.



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5.5 Shore Service Connections

All shore connections are at barge deck level.